# **ATTACHMENT 11**

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1
                 UNITED STATES DISTRICT COURT
 2
                NORTHERN DISTRICT OF CALIFORNIA
 3
                        SAN JOSE DIVISION
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      CISCO SYSTEMS, INC.,
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                   Plaintiff,
                                 ) Case No.
 7
                                 ) 5:14-cv-05344-BLF (PSG)
              vs.
 8
     ARISTA NETWORKS, INC.,
                                 )
 9
                   Defendant.
10
11
       *** HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY ***
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15
        VIDEOTAPED DEPOSITION OF RAMANATHAN KAVASSERI
16
                      Palo Alto, California
17
                   Tuesday, February 23, 2016
                            Volume I
18
19
20
21
22
     Reported by:
     CARLA SOARES
     CSR No. 5908
23
     Job No. 2216982
24
25
     Pages 1 - 195
                                                       Page 1
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1		HIGHLI CONFIDENTIAL	- 73	
NORTHERN DISTRICT OF CALIFORNIA   3 SAN IOSE DIVISION   4   5 CISCO SYSTEMS, INC., )   4   FARELLA BRAUN & MARTEL LLP   5 BY: RODERICK M. THOMPSON, Attorney at Lar   5 BY: RODERICK M. THOMPSON, Attorney at Lar   7 235 Montgomery Street   8 San Francisco, California 94104   9 15.954.4800   10 rthompson@thm.com   10 rthompson@thm.com   11   12   13 ALSO PRESENT: Ramon Peraza, Video Operator   12   13 ALSO PRESENT: Ramon Peraza, Video Operator   14   15   15  000   16   17   17   18   18   19   19   19   19   19   19	1	UNITED STATES DISTRICT COURT	1	APPEARANCES (Continued):
3   SAN IOSE DIVISION   4   FARELLA BRAUN & MARTEL LLP			1	
S CISCO SYSTEMS, INC., )   5   FARELLA BRAUN & MARTEL LLP   5   5   FX RODERICK M. THOMPSON, Attorney at Lar   5   6   Russ Building   7   235 Montgomery Street   8   8   8   Francisco, California 94104   9   415.954.4400   10   rthompson@fbm.com   11   12   13   ALSO PRESENT: Ramon Peraza, Video Operator   14   15  o0o   16   15   15  o0o   16   16   16   16   16   16   16				
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Case No.   7   235 Montgomery Street   8   San Francisco, California 94104   9   415.954.4400   10   rthompson@fbm.com   10   rthompson@fbm.com   11   12   13   ALSO PRESENT: Ramon Peraza, Video Operator   12   13   ALSO PRESENT: Ramon Peraza, Video Operator   14   15  000   16   15  000   16   17   18   15  000   16   17   18   18   19   19   19   19   19   19	6			· · · · · · · · · · · · · · · · · · ·
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8 ARISTA NETWORKS, INC., )   9   415.954.4400   rthompson@fbm.com   11   12   13   12   13   14   15   14   16   16   17   16   17   16   17   17	7	vs. ) 5:14-cv-05344-BLF (PSG)		
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Defendant. )	8			
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18 at 601 California Avenue, Palo Alto, California,   19   9   beginning at 10:09 a.m., and ending at 4:26 p.m., on   20   Tuesday, Pebruary 23, 2016, before CARLA SOARES,   21   22   23   24   24   25   25   25   25   25   25			18	
20   Tuesday, February 23, 2016, before CARLA SOARES, 21   Certified Shorthand Reporter No. 5908.   22   23   24   24   25   25   26   27   27   27   27   27   27   27			19	
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22   23   24   25   26   27   27   27   27   27   27   27			21	
23	1	Certified Shorthand Reporter No. 5908.	22	
24   25   25   25   25   25   25   25	1		23	
25	1		24	
1 APPEARANCES: 2   1 INDEX   2 WITNESS   3 RAMANATHAN KAVASSERI   EXAMINATION   Volume I   Volume I   Volume I   Volume I			25	
2 WITNESS   3 RAMANATHAN KAVASSERI   EXAMINATION Volume I		Page 2		Page 4
3 For the Plaintiff:	1	APPEARANCES:	1	INDEX
3 For the Plaintiff:	1		2	
BY: MARK TUNG, Ph.D., Attorney at Law   5   BY MR. SANTACANA   10	3	For the Plaintiff:	3	RAMANATHAN KAVASSERI EXAMINATION
S	4	OUINN EMANUEL UROUHART & SULLIVAN, LLP		Volume I
6         555 Twin Dolphin Drive, 5th Floor         5         BY MR. SANTACANA         10           7         Redwood Shores, California 94065         6         BY MR. TUNG         186           8         650.801.5016         7           9         marktung@quinnemanuel.com         8         EXHIBITS           10         PAGE           11         10         Exhibit 325 Ramanathan R. Kavasseri's         22           11         Responses and Objections to         12         Defendant Arista Networks'         13         Subpoena to Testify at a         14         Deposition         15         16         Exhibit 326 LinkedIn page for Ram         24         17         Kavasseri         18 <td< td=""><td>5</td><td></td><td>4</td><td></td></td<>	5		4	
7       Redwood Shores, California 94065       6       BY MR. TUNG       186         8       650.801.5016       7         9       marktung@quinnemanuel.com       8       EXHIBITS         10       PAGE         11       10       Exhibit 325       Ramanathan R. Kavasseri's       22         11       Responses and Objections to         12       Defendant Arista Networks'       13       Subpoena to Testify at a         14       BY: EDUARDO E. SANTACANA, Attorney at Law       15       15         16       633 Battery Street       16       Exhibit 326 LinkedIn page for Ram       24         17       San Francisco, California 94111       17       Kavasseri         18       415.391.5400       18         19       esantacana@kvn.com       19       Exhibit 327 Document headed "A Simple 52"         20       rwong@kvn.com       20       Network Management Protocol,"         21       dated 8/1988,         22       Bates ARISTANDCA00022432 - 2464         23       24       Exhibit 328 Document headed "Event MIB," 83         25       dated 10/2000		•	5	BY MR. SANTACANA 10
8       650.801.5016       7         9       marktung@quinnemanuel.com       8       EXHIBITS         10       PAGE         11       DESCRIPTION       PAGE         12       For the Defendant:       11       Responses and Objections to         13       KEKER & VAN NEST LLP       12       Defendant Arista Networks'         14       BY: EDUARDO E. SANTACANA, Attorney at Law       13       Subpoena to Testify at a         15       BY: RYAN WONG, Attorney at Law       14       Deposition         16       633 Battery Street       16       Exhibit 326 LinkedIn page for Ram       24         17       San Francisco, California 94111       17       Kavasseri         18       415.391.5400       18         19       esantacana@kvn.com       19       Exhibit 327 Document headed "A Simple of Park and Park a			6	BY MR. TUNG 186
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10			8	EXHIBITS
11	1	marktung@qunmemanuer.com	9	NUMBER DESCRIPTION PAGE
12 For the Defendant: 13 KEKER & VAN NEST LLP 14 BY: EDUARDO E. SANTACANA, Attorney at Law 15 BY: RYAN WONG, Attorney at Law 16 633 Battery Street 17 San Francisco, California 94111 18 415.391.5400 19 esantacana@kvn.com 19 Exhibit 327 Document headed "A Simple 52 rwong@kvn.com 20 rwong@kvn.com 21 dated 8/1988, 22 Bates ARISTANDCA00022432 - 2464 23 24 Exhibit 328 Document headed "Event MIB," 83 25 dated 10/2000			10	Exhibit 325 Ramanathan R. Kavasseri's 22
12   Defendant Arista Networks'   13   Subpoena to Testify at a   14   Deposition   15   BY: RYAN WONG, Attorney at Law   16   633 Battery Street   16   Exhibit 326 LinkedIn page for Ram   24   17   San Francisco, California 94111   17   Kavasseri   18   415.391.5400   18   19   esantacana@kvn.com   19   Exhibit 327 Document headed "A Simple   52   19   Cate of the substitute of the su	1	For the Defendant:	11	Responses and Objections to
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15			14	
10 Exhibit 326 Linkedin page for Ram   24   17   Kavasseri   18   415.391.5400   18   19   esantacana@kvn.com   19 Exhibit 327 Document headed "A Simple   52   20   Network Management Protocol,"   21   dated 8/1988,   22   Bates ARISTANDCA00022432 - 2464   23   24   Exhibit 328 Document headed "Event MIB,"   83   25   dated 10/2000			15	
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19 esantacana@kvn.com 19 Exhibit 327 Document headed "A Simple 52 20 rwong@kvn.com 20 Network Management Protocol," 21 dated 8/1988, 22 Bates ARISTANDCA00022432 - 2464 23 23 24 Exhibit 328 Document headed "Event MIB," 83 25 dated 10/2000				7 -
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23 24 Exhibit 328 Document headed "Event MIB," 83 25 25 dated 10/2000	21		21	dated 8/1988,
24 Exhibit 328 Document headed "Event MIB," 83 25 dated 10/2000	22		22	Bates ARISTANDCA00022432 - 2464
25 dated 10/2000	23		23	
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Page 3 Page 5			24	Exhibit 328 Document headed "Event MIB," 83
	24			·

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1 EXHIBITS	1 REFERENCED EXHIBITS
2 NUMBER DESCRIPTION PAGE	2 (Not attached)
3 Exhibit 329 Document headed "Commands for 94	3 Exhibit/Page
4 which Cisco listed Ramanathan	4 92 89
5 Kavasseri as 'Author/Originator'	5
6 in Cisco's response to Interrogatory	6000
7 No. 16, Exhibit F (January 12, 2016)"	7
8	8
9 Exhibit 330 Document labeled "Ram Kavasseri, 101	9
10 Garry Horoupian," dated 2/8/06,	10
11 Bates CSI-CLI-00682250 - 2314	11
12	12
13 Exhibit 331 Document labeled "Parser Police: 122	13
14 Where can we go from here?"	14
15 Bates CSI-ANI-00031041 - 0032	15
16	16
17 Exhibit 332 Document headed "Hot ICE Product 129	17
18 Requirements Document,"	18
19 Bates CSI-CLI-00662062 - 2085	19
20	20
21 Exhibit 333 Document headed "Unprintable 132	21
22 File,"	22
23 first page Bates CSI-CLI-00358160	23
24	24
25	25
Page 6	Page 8
1 EXHIBITS	1 Palo Alto, California 09:21:40
2 NUMBER DESCRIPTION PAGE	Tuesday, February 23, 2016
3 Exhibit 334 Document headed "User-based 149	3 10:09 a.m.
4 Security Model (USM) for version 3	4
5 of the Simple Network Management	5 PROCEEDINGS 09:21:40
6 Protocol (SNMPv3)," dated 1/1998	6 THE VIDEO OPERATOR: Good morning. We are
7	7 on the record at 10:09 a.m. on February 23rd, 2016.
8 Exhibit 335 Document headed "View-based 151	8 This is the videotaped deposition of Mr. Ramanathan
9 Access Control Model (VACM) for	9 Kavasseri.
10 the Simple Network Management	10 My name is Ramon Peraza, here with our 10:09:15
Protocol (SNMP)," dated 1/1998	11 court reporter, Carla Soares. We're here from
12	12 Veritext Legal Solutions at the request of counsel
13 Exhibit 336 Document headed "An Architecture 154	13 for the defendant.
14 for Describing SNMP Management	14 This deposition is being held at Wilson
Frameworks," dated 1/1998	15 Sonsini in Palo Alto. The caption of this case is 10:09:26
16	16 Cisco Systems, Inc., versus Arista Networks, Inc.,
17 Exhibit 337 Document headed "Doc Number 159	17 Case No. 5:14-cv-05344-BLF (PSG).
18 ENG-28473,"	18 Please note that audio- and
19 Bates CSI-CLI-00609071 - 9083	19 video-recording will take place unless all parties
20	20 have agreed to go off the record. Microphones are 10:09:50
21 Exhibit 338 Document entitled "Cisco IOS 172	21 sensitive and may pick up whispers or private
22 Network Management Command	22 conversations.
Reference," dated 10/2009,	23 At this time, Counsel, please identify
24 Dates CCI CLI 00210765 1101	24 yourselves for the record and state whom you
24 Bates CSI-CLI-00319765 - 1101	ar yourserves for the record and state whom you
25 Bates CSI-CLI-00319703 - 1101	25 represent. 10:10:00

1 Q Sure. 11:37:17	
110/11/	1 don't recall the features that I was working on, so 11:40:26
2 The functional specifications that you	2 I don't recall specifically what I would have done
3 reviewed when developing SNMP features, would that	3 to compare.
4 specification have been written by someone at Cisco?	4 Q I see.
5 A Yes. 11:37:27	5 Was it part of your process in developing 11:40:35
6 Q And did you were you involved in	6 features to review what other vendors were doing to
7 writing any functional specifications?	7 implement the same features?
8 A Yes, I was.	8 A Other so in the space that we worked
9 Q Was that for the features that you were	9 with SNMP, vendors contributed to the IETF document
10 implementing? 11:37:36	10 so it wasn't as necessary to look at their 11:40:59
11 A Yes, it was. Yes, it was.	11 implementations because they were there telling us
12 Q Do you recall right now which functional	12 what they were trying to build. That was the whole
13 specifications you may have written?	13 point of building an industry standard.
A Not off the top of my head, no.	14 Also, Cisco was on the leading edge of
5 Q Did the GEM methodology involve reviewing 11:37:57	15 implementing the protocols as they were being 11:41:11
6 IETF documents?	16 developed. In a few cases, we would have the
17 A As far as I recall, no.	17 implementations before the protocols were released
8 Q Did you review IETF documents when you	18 because we were helping author the protocol.
9 were implementing SNMP features?	19 So at that point, looking at other vendors
20 A That is a broad question. If the feature 11:38:12	20 was not possible because they had not done the 11:41:24
21 had anything specific to do with an IETF document,	21 implementations or released the implementations,
22 then yes, I would have had to review the document to	22 which is why I was being very specific in saying, I
23 make sure I was implementing it correctly, "it"	23 don't recall the exact features I was working on.
24 being whatever I was working on,	24 But my answer would change depending on
25 Q Okay. And that is something you would 11:38:26	25 what I was working on and depending on whether 11:41:
Page 62	Page
I have reviewed an IETF document relating to a feature 11:38:31	I somebody had done something in the field. 11:41:40
2 you were implementing before you implemented the	2 Q I understand.
3 feature; is that right?	3 Who else worked on the team that was
4 A If there was an IETF document associated	4 implementing SNMP features at Cisco?
	4 implementing SNMP features at Cisco? 5 A I don't remember all the names, but my 11:41:58
5 with what I was working on and I was required to 11:38:41	3 8
5 with what I was working on and I was required to 6 implement part or the whole part of that IETF	5 A I don't remember all the names, but my 11:41:58 6 manager was John Hopprich. My technical lead and
5 with what I was working on and I was required to 6 implement part or the whole part of that IETF 7 document, then yes, I would have reviewed that IETF	5 A I don't remember all the names, but my 11:41:58 6 manager was John Hopprich. My technical lead and 7 mentor, Jeff Jeffrey Johnson. I had it for a
5 with what I was working on and I was required to 6 implement part or the whole part of that IETF 7 document, then yes, I would have reviewed that IETF 8 document before I implemented the feature.	5 A I don't remember all the names, but my 11:41:58 6 manager was John Hopprich. My technical lead and 7 mentor, Jeff Jeffrey Johnson. I had it for a 8 moment and it went away there. Sandra Durham was
5 with what I was working on and I was required to 6 implement part or the whole part of that IETF 7 document, then yes, I would have reviewed that IETF 8 document before I implemented the feature. 9 Q Were there features that you developed at	5 A I don't remember all the names, but my 11:41:58 6 manager was John Hopprich. My technical lead and 7 mentor, Jeff Jeffrey Johnson. I had it for a
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1			
75	Q If you take a look at the last command in 14:41:36	1 at 2:44 p.m. 14:44:02	
2	this table, "snmp-server user," do you know whether	2 (Recess, 2:44 p.m 3:05 p.m.)	
3	you authored that command?	3 THE VIDEO OPERATOR: We are back on the	
4	A Define what you mean by "authored that	4 record at 3:05 p.m.	
5	command." 14:41:55	5 BY MR. SANTACANA: 15:05:39	9
6	Q Do you know whether you are the one who	6 Q Mr. Kavasseri, we left off talking about	
7	came up with the sequence of words that resulted in	7 the "snmp-server user" command, and you testified	
8	this command, "snmp-server user"?	8 that "snmp-server" came from a prior command in IOS	
9	A I cannot be definitive about it.	9 at the time?	
10	Q Who else do you recall working with on 14:42:07	10 A No, I said that I don't know how it came 15:05:	56
11	this project that resulted in these eight commands?	11 about. It was already there when I joined Cisco.	
12	A I would probably have reviewed this with	12 Q And its inclusion in this command for	
13	my team members. And so I can't the reason I	13 which you are named the author, it's included there	
	answered the way I did is, I don't know if I came up	14 because it was already part of IOS?	
	with the word "user" or somebody else came up with 14:42:25	- 1997 -	6:12
	the word "user." So I'm not sure in hindsight.	16 I added extensions.	
17	Q Did you come up with the term	17 Q And the root was in IOS before you started	
	"snmp-server"?	18 working at Cisco?	
19	A Absolutely not.	19 A To the best of my knowledge, it was	
20	Q Okay. How do you know that? 14:42:39	20 already there before I started. 15:06:23	
21	A It was there before I joined.	21 Q And the term "user" is a term that comes	
22	Q It was where?	22 from the SNMP industry standard?	
23	A It was in the IOS CLI before I joined	23 A I'm not sure I'd say it exactly that way.	
	Cisco.	24 The term "user" relates to parts of the SNMP V3	
25	Q Okay. And so the addition to that term 14:42:48	25 protocol, yes. 15:06:48	
	Page 146	17931	ige 14
120	that was new was the word "user"? 14;42;52	1 Q Is that a term that the protocol uses? 15:06:49	
2	A Yes.	2 A I believe so, but I if you have a copy	
3		- John Marie Copy	
The same of	C CKAY. And do you know where that word	3 of the reference. I could take a look	
4 (	Q Okay. And do you know where that word came from?	3 of the reference, I could take a look. 4 O Sure. Of course.	
	came from?	4 Q Sure. Of course.	·07·03
5	came from?  A The SNMP V3 protocol specification has a 14:43:00	4 Q Sure. Of course. 5 THE VIDEO OPERATOR: Exhibit 334. 15:	:07:03
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5 6 6 6 7 1 8 8 9 1 1 1 1 1 1 1 2 1 3 1 4 4 4 1 1 5 1 1 6 1 7 1 8 8 8 1 9 1 2 2 1 1 2 2	A The SNMP V3 protocol specification has a  definition of roles, if I remember right, and users and groups are in the protocol.  Q So the term "user" came from the protocol came from the industry standard protocol?  A Yes.  MR. TUNG: Objection. Mischaracterizes.  THE WITNESS: It referred to what was in the protocol, yes.  BY MR. SANTACANA:  Q And the protocol uses the word "user"?  A I've got to go read the protocol to be absolutely sure.  Q Okay.  A After this, can we take a break?  If you want, we can take a break right	4 Q Sure. Of course. 5 THE VIDEO OPERATOR: Exhibit 334. 15: 6 (Exhibit 334 was marked for identification 7 and is attached hereto.) 8 BY MR. SANTACANA: 9 Q Exhibit 334 is RFC 2274 titled "User-based 10 Security Model (USM) for version 3 of the Simple 15: 11 Network Management Protocol (SNMP V3)." 12 Do you know, sir, if this is an RFC that 13 you reviewed when you were 14 A Yes. Let me I'm pretty sure this was 15 an RFC I reviewed because I ended up implementing 1 16 parts of it. 17 Q And just to be clear, it's an RFC that you 18 reviewed when you were implementing the eight 19 commands in Exhibit 329? 20 A Seven. I'm not sure about "snmp host." 15:07:5 21 Q Okay. So this is something you would have	5:07:17
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1 Q Is this a document you reviewed when you 15:12:26
2 were preparing to implement the commands in
3 Exhibit 329?
4 A I believe it would have been something I
5 reviewed before I implemented the commands. 15:12:35
6 Q And if you flip to page 3 of the document,
7 under Section 2.1 titled "Groups," the first
8 paragraph defines the term "group" as follows: "A
9 group is a set of zero or more securityModel,
:3910 securityName tuples on whose behalf SNMP management 15:12:55
11 objects can be accessed. A group defines the access
12 rights afforded to all securityNames which belong to
13 that group."
14 Does this RFC use the term "group" the
15 same way that you were using it in your "snmp-server 15:13:08
16 group" command?
17 A I believe so.
18 Q What does the "snmp-server group" command
19 do?
20 A Actually, even reading this document 15:13:26
21 probably won't tell me because I need to see all the
22 help extensions to see what it does.
23 Q Okay.
24 A So it's been a while.
25 Q You don't recall what it does? 15:13:34
Page 152
1 A No. 15:13:35
2 Q Okay. Do you recall what "snmp-server
3 user" does?
4 A I would rather not guess at this point.
5 It's been years since I used these commands. 15:13:45
6 I probably would be able to figure it out
7 within about 25 minutes of touching the CLI, but
8 it's really old, old stuff.
9 Q I understand.
10 I'd like to turn your attention now to the 15:14:14
11 two commands right above that, "snmp-server engineID
12 local" and "snmp-server engineID remote."
13 Did you author those commands?
[ ] [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [
14 A I think I have a strong recollection that
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 15:14:32
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 16 fact that there was the ID which is upper case,
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 16 fact that there was the ID which is upper case, 17 which is usually not what we do in these IOS CLI
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 16 fact that there was the ID which is upper case, 17 which is usually not what we do in these IOS CLI 18 commands. It stands out.
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 16 fact that there was the ID which is upper case, 17 which is usually not what we do in these IOS CLI 18 commands. It stands out. 19 Q Typically in IOS CLI you weren't
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 16 fact that there was the ID which is upper case, 17 which is usually not what we do in these IOS CLI 18 commands. It stands out. 19 Q Typically in IOS CLI you weren't 20 accustomed to seeing letters capitalized like they 15:14:52
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 16 fact that there was the ID which is upper case, 17 which is usually not what we do in these IOS CLI 18 commands. It stands out. 19 Q Typically in IOS CLI you weren't 20 accustomed to seeing letters capitalized like they 15:14:52 21 are in the term "engineID"?
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 16 fact that there was the ID which is upper case, 17 which is usually not what we do in these IOS CLI 18 commands. It stands out. 19 Q Typically in IOS CLI you weren't 20 accustomed to seeing letters capitalized like they 15:14:52 21 are in the term "engineID"? 22 A Yes.
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 16 fact that there was the ID which is upper case, 17 which is usually not what we do in these IOS CLI 18 commands. It stands out. 19 Q Typically in IOS CLI you weren't 20 accustomed to seeing letters capitalized like they 21 are in the term "engineID"? 22 A Yes. 23 Q Why were they capitalized here?
14 A I think I have a strong recollection that 15 I had more to do with these commands; in part, the 16 fact that there was the ID which is upper case, 17 which is usually not what we do in these IOS CLI 18 commands. It stands out. 19 Q Typically in IOS CLI you weren't 20 accustomed to seeing letters capitalized like they 15:14:52 21 are in the term "engineID"? 22 A Yes.

1 rest of the configuration through SNMP directly. 15:31:32	1 team suggested, "Hey, go with the shortest string." 15:34:39
2 This was not possible before.	2 Because when you're talking about the
3 Because it was not possible before, we had	3 command line, it's all about how many characters you
4 never bothered with creating communities which	4 type, or it's a lot to do with how many characters
5 existed before SNMP V3 through SNMP. So now we 15:31:46	5 you type. 15:34:51
6 needed to add that as a support feature as well.	6 Q Why is that?
7 BY MR. SANTACANA:	7 A Well, you could type U and hit "tab," and
8 Q And the reason you needed to add the	
Maria de la compania	8 if there was no other word that started with U, IOS
9 ability to create and delete communities, users and	9 would auto-complete to "user." So you didn't need
10 groups was because of the features of the industry 15:31:59	10 to type the whole thing. 15:35:03
II standard SNMP V37	11 Q Okay. If you turn to the page that ends
12 A I don't know whether SNMP V3 the	12 in 82, this is the end of a list of CLI commands
3 SNMP V3 talked about users, not communities, if 1	13 that you're proposing, and this one in particular is
14 remember right. I think that's what we referred to	14 the "snmp-server engineID" command.
15 in the in getting things getting tricky. 15:32:24	15 Do you see that? 15:35:28
Even now we just had it through SNMP, so	16 A Can you repeat that again, please?
7 only the IOS CLI was the point of record. I'm not	17 Just I'm slowing down reading stuff already.
8 sure whether I meant here that you could delete	18 Q Of course. After the first paragraph
9 stuff through SNMP that was created through the CLI	19 here, which carries over from the previous page,
20 and now the CLI needs to be regenerated or resaved 15:32:38	20 there's an asterisk, and then there's the 15:35:40
21 to NV RAM.	21 "snmp-server engineID" command.
Q Okay. I think I understand. And it might	22 A Yeah.
23 be clear if you flip to the page that ends in 75.	23 Q And then below that you describe what the
24 Section 2.7.	24 command is and what it's going to do.
25 Section 2.7 says, "SNMP V1/V2 versus SNMP 15:33:02	25 Do you see that? 15:35:49
Page 162	
1 V3 differences, and how things work." 15:33:07	1 A Yeah. 15:35:51
2 And then you have a list of differences	2 Q And then also it shows that local and
3 and how things work between the old and the new	3 remote are optional arguments.
4 versions of SNMP.	4 Do you see that?
5 The first thing that you wrote was, "In 15:33:18	5 A Where does it say local and remote are 15:36:03
6 SNMP V3, 'community strings' are called 'users,"	6 optional arguments?
7 and "users" is in quotation marks. "Each 'user,"	7 Q Directly under "snmp-server engineID," do
8 in quotation marks again, "has an access-policy,	8 you see the open bracket, and then it says, "local,"
9 which is termed a 'group," and the word "group" is	9 and then there's a vertical line, and then it says,
0 also in quotation marks, "i.e., users belong to a 15:33:31	[ - 1일 - 1일 (1) - 12 (1) 1 - 12
1 group."	Mary research confidence
	11 A So
2 A Yep.	12 Q So it indicates that the command
Q Does this strike that.	13 "snmp-server engineID" could either take the local
4 Does this refresh your recollection as to	14 argument or the parameter, if you will, or the
5 whether the terms "users" and "group" came from the 15:33:49	(N.D.) (N
6 SNMP standard?	16 A No, I don't think that this is an optional
A. The term "user" and "group" referred to	17 argument. I think there's a typo in this text here.
8 concepts in the SNMP standard. Of that, I have no	18 Q Okay.
9 issue with saying that.	19 A Because if you look at it, the first
The reason I hesitate is, we use the term 15:34:19	20 bracket is an open curly brace. There is no close 15:36:34
1 "user," and we could have used VACM user or any	21 curly brace.
2 other combination of "user."	22 I assume that and again, I could be
We settled on "user." I'm not sure that	23 completely wrong on this. I assume that the if
4 that was because it was directly due to looking at	24 you look at "remote ipaddress udp-port," and then
5 the RFC, or somebody in parser police or within my 15:34:35	25 within angle brackets, "port," following that are 15:36:52
Page 163	Page 16.

1 Q I understand. 15:45:53
2 You've expressed some additional haziness
3 about the command "show snmp host."
4 A Yes.
5 Q I'm going to apologize in advance for the 15:46:21
6 heft of this thing.
7 A Holy cow.
8 (Exhibit 338 was marked for identification
9 and is attached hereto.)
10 BY MR. SANTACANA: 15:46:31
11 Q Exhibit 338 is titled "Cisco IOS Network
12 Management Command Reference." It bears control
13 numbers beginning with CSI-CLI-00319765, and it's
14 dated October 2009.
15 I just want you to flip to the page that 15:47:03
16 ends in 1060. The internal page would be NM-1248.
17 So this page relates to the command
18 "snmp-server host."
19 A Yes.
20 Q Do you recognize that command? 15:47:58
21 A Yes, now I do.
22 Q Did you author that command?
23 A I will go back to my earlier statement
24 that it's highly likely that I checked in the file
25 with this command. Especially with this command, I 15:48:21 Page 172
1 am not sure whether I was the original author of the 15:48:24
2 term "host."
3 I'm going to say "term" instead of
4 "command," which you used, because we're talking
5 about an extension to the SNMP server command here. 15:48:3
6 The reason I say "host" is, if I remember
7 right, the previous version, now that I'm reading
8 this, we are specifying the target of an event that
9 is being messaged through SNMP.
Previously this event was called a trap. 15:48:58
11 Now we're giving you the option of a trap or an
12 inform.
13 So there was some effort to differentiate
14 between what was before and what is now the
15 acceptable accepted way of configuring targets. 15:49:20
16 Q If you look at the page NM-1251, control
17 number ends in 1063, this is a command history for
18 the command "snmp-server host," and it lists as the
19 first release IOS version 10.
20 Do you see that? 15:50:04
21 A "Host"? I thought that that previous
22 version was "enable trap." Let me double-check.
23 Yeah, this differs from my recollection.
24 Q Sorry?
25 A This differs from my recollection. 15:50:29

1		
2		
3		
4		
5		
6		
7		
8	I, RAMANATHAN KAVASSERI, do hereby declare	
9	under penalty of perjury that I have read the	
ł	foregoing transcript; that I have made any	
ļ.	corrections as appear noted, in ink, initialed by	
	me, or attached hereto; that my testimony as	
1	contained herein, as corrected, is true and correct.	
14	EXECUTED this day of,	
15	2016, at	
16	(City) (State)	
17		
18		
19		
20	RAMANATHAN KAVASSERI	
21		
22		
23		
24		
25		
	Page 194	
1	I, the undersigned, a Certified Shorthand	
2	Reporter of the State of California, do hereby	
3	certify:	
4	That the foregoing proceedings were taken	
	before me at the time and place herein set forth;	
	that any witnesses in the foregoing proceedings,	
	prior to testifying, were administered an oath; that	
	a record of the proceedings was made by me using	
	machine shorthand which was thereafter transcribed under my direction; that the foregoing transcript is	
	a true record of the testimony given.	
12	Further, that if the foregoing pertains to	
	the original transcript of a deposition in a Federal	
	Case, before completion of the proceedings, review	
	of the transcript [X] was [] was not requested.	
16	I further certify I am neither financially	
17	interested in the action nor a relative or employee	
18	of any attorney or any party to this action.	
19	IN WITNESS WHEREOF, I have this date	
20	subscribed my name.	
21		
	Dated: 3/7/16	
23		
24	Carla Soares	
25	CARLA SUAKES	
	CSR No. 5908	
	1 450 175	

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1
                  UNITED STATES DISTRICT COURT
 2
                 NORTHERN DISTRICT OF CALIFORNIA
 3
                        SAN JOSE DIVISION
 4
 5
     CISCO SYSTEMS,
                        )
     INC.,
 6
                         )
 7
          Plaintiff, )
 8
              vs. ) No. 5:14-cv-05344-BlF (PSG)
 9
     ARISTA NETWORKS, )
     INC.,
10
          Defendant. )
11
12
13
      CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER
14
15
            VIDEOTAPED DEPOSITION OF ANTHONY J. LI
16
                         Palo Alto, CA
17
                   Monday, February 1, 2016
                            Volume I
18
19
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21
     Reported by: SUSAN F. MAGEE, RPR, CCRR, CLR
22
     CSR No. 11661
23
     JOB No. 2224600
24
25
     PAGES 1-258
                                                     Page 1
```

	UNDER THE PROTECTIVE ORDER
1 UNITED STATES DISTRICT COURT	1 INDEX
2 NORTHERN DISTRICT OF CALIFORNIA	2
3 SAN JOSE DIVISION	3 CONFIDENTIAL INFORMATION UNDER THE PROTECTIVE ORDER
4	4 VIDEO DEPOSITION OF ANTHONY J. LI
5 CISCO SYSTEMS, )	5 Volume I
6 INC., )	6 EXAMINATION BY PAGE
7 Plaintiff, )	7 BY MR. WONG 9
8 vs. ) No. 5:14-cv-05344-BIF (PSG)	8 BY MR PAK 191
9 ARISTA NETWORKS, )	9
10 INC., )	10
11 Defendant. )	11
12	12
13	13
14	14
15 CONFIDENTIAL INFORMATION UNDER THE	15
16 PROTECTIVE ORDER VIDEO DEPOSITION OF ANTHONY J. LI	16
17 taken on behalf of Defendant at WILSON, SONSINI,	17
18 GOODRICH & ROSATI, 601 South California Avenue,	18
19 Palo Alto, CA 94304, beginning at 9:13 a.m. and	19
20 ending at 4:17 p.m. on Monday, February 1, 2016,	20
21 before Susan F. Magee, RPR, CCRR, CLR, Certified	21
22 Shorthand Reporter No. 11661.	22
23	23
24	24
25	25
Page 2	Page 4
1 APPEARANCES:	1 EXHIBITS
2	2 NUMBER DESCRIPTION PAGE
3 For the Plaintiff:	3
4 QUINN, EMANUEL, URQUHART & SULLIVAN	4 Exhibit 136 LinkedIn Profile (8 pages) 12
5 BY: SEAN PAK, ESQ.	5 Exhibit 137 RFC Table (3 pages) 90
6 50 California Street	6 Exhibit 138 March 1995 RFC 1771, A Border 100
7 22nd Floor	7 Gateway Protocol 4 (BGP-4) (57
8 San Francisco, CA 94111	8 pages)
9 (415) 875-6600	9 Exhibit 139 December 1995 RFC 1887, An 105
10 seanpak@quinnemanuel.com	10 Architecture for IPv6 Unicast
11	11 Address Allocation,
12 For the Defendant:	12 ARISTANDCA00025747-ARISTANDCA
13 KEKER & VAN NEST LLP	13 00025772
14 BY: RYAN WONG, ESQ.	14 Exhibit 140 June 1996 RFC 1966, BGP Route 111
15 BRIAN L. FERRALL, ESQ.	15 Reflection, An Alternative to
16 633 Battery Street	16 Full Mesh IBGP,
17 San Francisco, CA 94111-1809	17 ARISTANDCA00025927-ARISTANDCA
18 (415) 773-6682	18 00025933
19 rwong@kvn.com	19 Exhibit 141 October 2008 RFC 2966, 116
20 bferrall@kvn.com	20 Domain-Wide Prefix Distribution
21	21 with Two-Level IS-IS (16 pages)
22 The Videographer:	22 Exhibit 142 August 1996 RFC 1997, BGP 119
23 JEFREE ANDERSON	23 Communities Attribute,
24	24 ARISTANDCA00026094-ARISTANDCA
25	25 00026098
Page 3	Page 5

Page 6		UNDER THE PROTECTIVE ORDER
4 Exhibit 143 March 1998 RFC 2281, Cisco Hot 5 Standby Router Protocol (HSRP), 6 ARISTANDCA00026832-ARISTANDCA 00026848 8 Exhibit 144 E-mail String Containing 143 9 9/22/92 E-mail from/to Toni Li, 10 TS-00000066 11 Exhibit 145 Procket Networks PRO/8000 163 12 Series Software Introduction 13 (144 pages) 14 Exhibit 146 Procket Networks PRO/8000 164 15 Series IPv6 Routing Protocols 16 (180 pages) 17 Exhibit 147 Procket Networks PRO/8000 164 18 Series System Management and 19 Operations (604 pages) 18 Series System Management and 19 Operations (604 pages) 10 Exhibit 148 Cisco's 6th Supplemental 167 12 Response to Interrogatory No. 19 Amended 24 Exhibit 167 (45 pages) 12 Exhibit 17 (45 pages) 12 Exhibit 187 (continued) 16 Exhibit 180 1/20/96 E-mail from Tony Li 16 Exhibit 150 1/20/96 E-mail from Tony Li 16 Exhibit 151 (20096 E-mail from Tony Li 16 Exhibit 151 (20	1 EXHIBITS (continued)	1 Palo Alto, CA, Monday February 1, 2016
4 Exhibit 143 March 1998 RFC 2281, Cisco Hot 5 Standby Router Protocol (HSRP), 6 ARISTANDCA00026832—ARISTANDCA 00026848   Exhibit 144 E-mail String Containing 143   9 9/22/92 E-mail from/to Toni Li, 10 TS-00000666   163   11 Exhibit 145 Procket Networks PRO/8000   163   12 Series Software Introduction (144 pages)   16	2 NUMBER DESCRIPTION PAGE	2 9:13 a.m.
5	3	3
Standby Router Protocol (HSRP),   6	4 Exhibit 143 March 1998 RFC 2281, Cisco Hot 1	24 4 THE VIDEOGRAPHER: Good morning. We're on
7	5 Standby Router Protocol (HSRP),	5 the record at 9:13 a.m. on February 1st, 2016. This 09:13:47
8 Exhibit 144 E-mail String Containing 9 9/22/92 E-mail from/to Toni Li, 10 TS-00000066   11 Exhibit 145 Procket Networks PRO/8000 163   12 Series Software Introduction   13 (144 pages)   14 Exhibit 146 Procket Networks PRO/8000 164   15 Series IPv6 Routing Protocols   16 (180 pages)   16 (180 pages)   17 Exhibit 147 Procket Networks PRO/8000 164   18 Series System Management and 19 Operations (604 pages)   16 (22 Interrogatory No. 19 Amended Exhibit 148 Cisco's 6th Supplemental 167   18 Response to 16 Interrogatory No. 19 Amended Exhibit 150 I/20/96 E-mail from Toni Li to 183   18 Exhibit 150 I/20/96 E-mail from Toni Li to 183   18 Exhibit 151 CSCdii4533, CSI-CLI-00746246   18 Exhibit 152 Group of E-mails Containing 239   18 Exhibit 152 Group of E-mails Containing 239   18 Exhibit 152 Group of E-mails Containing 239   18 Exhibit 153 I/20/4631 -	6 ARISTANDCA00026832-ARISTANDCA	6 is the video recorded deposition of so sorry. Of
9 9/22/92 E-mail from/to Toni Li, 10 TS-0000066 11 Exhibit 145 Procket Networks PRO/8000 163 12 Series Software Introduction 13 (144 pages) 14 Exhibit 146 Procket Networks PRO/8000 164 15 Series IPv6 Routing Protocols 16 (180 pages) 17 Exhibit 147 Procket Networks PRO/8000 164 18 Series System Management and 19 Operations (604 pages) 20 Exhibit 148 Cisco's 6th Supplemental 167 21 Response to Interrogatory NO. 22 In and Response to Interrogatory No. 19 Amended 24 Exhibit 150 (120796 E-mail from Toni Li to 183 25 Exhibit 151 (SCGdi 14533, CSI-CLI-01339850 185 26 Exhibit 152 Group of E-mails Containing 239 28 223/1996 E-mail from Toni Li to 183 29 to widner@cisco.com, 10 CSI-CLI-00746347 11 CSI-CLI-00746347 12 CSI-CLI-00746347 12 CSI-CLI-00746347 13 Exhibit 152 Group of E-mails Containing 239 14 A Response to Interrogatory NO. 19 Amended 10 Commands (10 page) 10 CSI-CLI-00746347 11 CSI-CLI-00746347 12 CSI-CLI-00746347 12 CSI-CLI-00746347 13 Exhibit 152 Group of E-mails Containing 239 14 CSI-CLI-00746347 15 Q Good morning, Mr. Li. 09:15:29 16 A Good morning, Mr. Li. 09:15:29 16 A Authory Joseph Li. 19 Q. Do you live in the Bay Area, Mr. Li? 20 A. Ido. 09:15:36 21 Q. Please state your nome add that are you 25 testifying here in response to a subpoena in this 09:15:46	7 00026848	
10	8 Exhibit 144 E-mail String Containing 143	8 My name is Jefree Anderson. We are here
11 Exhibit 145 Procket Networks PRO/8000 12 Series Software Introduction 13 (144 pages) 14 Exhibit 146 Procket Networks PRO/8000 15 Series IPv6 Routing Protocols 16 (180 pages) 17 Exhibit 147 Procket Networks PRO/8000 18 Series System Management and 19 Operations (604 pages) 20 Exhibit 148 Cisco's 6th Supplemental 21 Response to Interrogatory NO. 22 Interrogatory NO. 19 Amended 24 Exhibit 17 (45 pages) 25 Exhibit 149 List of Commands (1 page) 26 Exhibit 181 C Scil-cts Soft Supplemental 27 NUMBER DESCRIPTION PAGE 28 Exhibit 150 1/20/96 E-mail from Toni Li to 29 Exhibit 151 C Scil-dts33, CSI-CLI-01339850 20 Exhibit 152 Group of E-mails Containing 23 Exhibit 152 Group of E-mails Containing 24 Exhibit 152 Group of E-mails Containing 25 Exhibit 152 Group of E-mail from Tony Li 26 Exhibit 152 Group of E-mails Containing 27 Exhibit 152 Group of E-mails Containing 28 Exhibit 152 Group of E-mails Containing 29 Exhibit 152 Group of E-mail from Tony Li 20 CSI-CLI-00746347 21 CSI-CLI-00746347 21 CSI-CLI-00746347 22 CSI-CLI-00746347 23 Exhibit 152 Group of E-mail from Tony Li 26 Exhibit 152 Group of E-mail from Tony Li 27 CSI-CLI-00746347 28 CSI-CLI-00746347 29 Exhibit 152 Group of E-mail Fom Tony Li 29 Exhibit 152 Group of E-mail Fom Tony Li 20 CSI-CLI-00746347 20 CSI-CLI-00746347 21 CSI-CLI-00746347 22 CSI-CLI-00746347 23 CSI-CLI-00746347 24 CSI-CLI-00746347 25 CSI-CLI-00746347 26 CSI-CLI-00746347 27 CSI-CLI-00746347 28 CSI-CLI-00746347 29 CSI-CLI-00746347 20 CSI-CLI-00746347 20 CSI-CLI-00746347 21 CSI-CLI-00746347 21 CSI-CLI-00746347 21 CSI-CLI-00746347 21 CSI-CLI-00746347 21 CSI-CLI-00746347 21 CSI-CLI-00746347 22 CSI-CLI-00746347 23 CSI-CLI-00746347 24 CSI-CLI-00746347 25 CSI-CLI-00746347 26 CSI-CLI-00746347 27 CSI-CLI-00746347 28 CSI-CLI-00746347 29 CSI-CLI-00746	9 9/22/92 E-mail from/to Toni Li,	9 from Veritext Legal Solutions at the request of
11   Exhibit 145   Procket Networks PRC/8000   163   12   Series Software Introduction   13   144   Pages)   14   Exhibit 146   Procket Networks PRC/8000   164   15   Series IPv6 Routing Protocols   16   (180 pages)   17   Exhibit 147   Procket Networks PRC/8000   164   18   Series System Management and   19   Operations (604 pages)   169   Page 6   10   Exhibit 148   Cisco's 6th Supplemental   167   21   Response to Interrogatory No. 19 Amended   24   Exhibit 17 (45 pages)   25   Exhibit 149   List of Commands (1 page)   169   Page 6   16   Exhibit 150   1/20/96 E-mail from Toni Li to   183   5   Bill W., CSI-CLI-00746246   Exhibit 151   CSCI-IdS3, CSI-CLI-01339850   185   7   Exhibit 152   Group of E-mails Containing   239   23   11   CSI-CLI-00746347   11   CSI-CLI-00746347   12   13   EXAMINATION BY MR. WONG   14   15   Q. Good morning, Mr. Li.   09:15:29   16   A. Good morning, Mr. Li.   09:15:29   22   A. 1 do.   09:15:36   23   40024.   24   Q. Mr. Li, do you understand that are you   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in response to a subpocena in this   09:15:46   25   testifying here in respo	10 TS-00000066	10 counsel for the defendant or the plaintiff? 09:14:16
13 deposition is being held at Wilson Sorsini at   14 deposition on this case is Cisco Systems, Incorporated 09:14:31   16 vs. Arista Networks, Incorporated 09:14:31   16 vs. Arista Networks, Incorporated 09:14:31   18 veries of Ciscon of the case number   17 is 5:14-cv-05344.   18 Please note that audio and video recording   19 will take place unless all parties agree to go off   20 the record, and microphones are sensitive and may   09:14:53   21 pick up whispers, private conversations and cellular   21 pick up whispers, private conversations and cellular   22 pick up whis	11 Exhibit 145 Procket Networks PRO/8000 163	11 MR. WONG: Defendants.
14 Exhibit 146 Procket Networks PRO/8000 15 Series IPv6 Routing Protocols 16 (180 pages) 17 Exhibit 147 Procket Networks PRO/8000 18 Series System Management and 19 Operations (604 pages) 20 Exhibit 148 Cisco's 6th Supplemental 21 Response to Interrogatory NO. 22 16 and Response to 23 Interrogatory No. 19 Amended 24 Exhibit 15 (25 pages) 25 Exhibit 149 List of Commands (1 page) 26 Exhibit 150 1/20/96 E-mail from Toni Li to 27 Exhibit 151 CSCati 14533, CSI-CLI-01339850 28 2/23/1996 E-mail from Tony Li 29 to widmer@cisco.com, 10 CSI-CLI-00746347 11 CSI-CLI-00746347 12 CSI-CLI-00746347 12	12 Series Software Introduction	12 THE VIDEOGRAPHER: For the defendant. This
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21	19 Operations (604 pages)	19 will take place unless all parties agree to go off
22	20 Exhibit 148 Cisco's 6th Supplemental 167	20 the record, and microphones are sensitive and may 09:14:53
23	21 Response to Interrogatory NO.	21 pick up whispers, private conversations and cellular
24	22 16 and Response to	22 interference; so please be aware of that.
25   Exhibit 149   List of Commands (1 page)   169   Page 6   25   MR. WONG: Ryan Wong from Keker & Van Nest   09:15:0 Page 8	23 Interrogatory No. 19 Amended	23 Beginning with our noticing attorney,
Page 6	24 Exhibit F (45 pages)	24 please state your name and the firm you represent.
1		,
2 NUMBER   DESCRIPTION   PAGE   3	Page	Page 8
3 Nest, also for Arista.  4 Exhibit 150 1/20/96 E-mail from Toni Li to 183  5 Bill W., CSI-CLI-00746246  6 Exhibit 151 CSCdi14533, CSI-CLI-01339850 185  7 Exhibit 152 Group of E-mails Containing 239  8 2/23/1996 E-mail from Tony Li  9 to widner@cisco.com, 10 CSI-CLI-00746331 - 11 CSI-CLI-00746347  11 CSI-CLI-00746347  12 13 EXAMINATION BY MR. WONG  14 15  15 Q. Good morning, Mr. Li. 09:15:29  16 A. Good morning.  17 Q. Please state your full name.  18 A. Anthony Joseph Li.  19 Q. Do you live in the Bay Area, Mr. Li?  20 A. I do. 09:15:36  21 Q. Please state your home address.  22 A. 1218 Thurston Avenue, Los Altos, California  23 94024.  24 Q. Mr. Li, do you understand that are you  25 testifying here in response to a subpoena in this 09:15:46		
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1 DEC systems, also had several IBM systems. VMCMS is	1 projects throughout the router. I started off doing
2 an operating system for IBM mainframes, and USC had	2 mostly maintenance work and answering customer
3 one and I had an account on the VM system.	3 questions. I then had several development projects.
4 Q. And what was the command syntax like for	4 My first development project was implementing
5 the CLI on VMCMS? 09:45:55	5 something called TCP header compression. 09:48:41
6 A. I'm sorry. I don't remember.	6 Q. And after you worked on TCP header
7 Q. You mentioned RSX-IIM?	7 compression, what else did you work on while at
8 A. It's 11M.	8 Cisco?
9 Q. 11M. Sorry.	9 A. I had numerous routing small projects
10 A. This was an operating system for PDP-11s. 09:46:06	10 within routing extending various interfaces and 09:48:58
11 Q. What are PDP-11s?	11 extending protocols as necessary.
12 A. That was a computer built by	12 My next big project was actually working on
13 Digital Equipment Corporation.	13 BGP, Border Gateway Protocol.
14 Q. Do you recall the command syntax of the	14 BY MR. WONG: Q. You mentioned TCP header
15 command line interface used on the RSX-11M? 09:46:25	15 expression. What does TCP mean? 09:49:22
16 A. No, I'm sorry. I don't.	16 A. That's Transmission Control Protocol. It's
17 Q. You mentioned that the LinkedIn profile	17 part of the Internet Protocol suite.
18 that we marked as Exhibit 136 did not have your full	18 Q. Is TCP an industry standard?
19 work history?	19 A. It is.
20 A. Correct. 09:46:46	Q. Was it an industry standard at the time you 09:49:37
21 Q. What work history is missing from your	21 worked on it at Cisco?
22 LinkedIn profile?	22 A. It was.
23 A. In particular the sys admin positions that	23 Q. What standard-setting body produced the TCP
24 I mentioned, summer internships predating. There	24 standard?
25 were several of those. Full-time positions that are 09:46:59	25 A. That's a difficult question. The TCP 09:49:49
Page 30	
- This page into the common and a superior common and a c	A THE STATE OF THE
1 not relevant to my professional experience,	1 standard was really a product of I guess the
2 particularly while I was in high school.	2 ARPANET project, but this actually predates IETF
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1 with during this 1001 through 1006 time and 1 at	
1 with during this 1991 through 1996 time period at	1 A. The standard the standard for IS-IS.
2 Cisco?	2 MR. PAK: Ryan, when you get a chance, can
<ol> <li>A. Everything else in the IP protocol suite</li> </ol>	3 we take a break? We've been going for about an
4 within Cisco. This includes RIP, IGRP, EIGRP, EGP,	4 hour.
5 OSPF, IS-IS. I also had my hands in some of the 10:03:14	5 MR. WONG: Sure. We can take a break now. 10:05:45
6 CLNS stack.	6 THE WITNESS: Thank you.
7 Q. What is OSPF?	7 THE VIDEOGRAPHER: Going off the record.
8 A. Open Shortest Path First routing protocol	8 The time is 10:05.
9 from the IETF.	9 (Recess taken from 10:05 a.m. to
10 THE REPORTER: Would you mind repeating 10:03:43	10 10:11 a.m.) 10:11:25
11 that. I'm sorry.	11 THE VIDEOGRAPHER: We're back on the
12 THE WITNESS: Open Shortest Path First	12 record. The time is 10:11.
13 routing protocol from the IETF.	13 BY MR. WONG: Q. Mr. Li, you used the
14 THE REPORTER: Thank you.	14 acronym BGP to refer to the Border Gateway Protocol;
BY MR. WONG: Q. And the RIP and the IGRP 10:03:51	15 correct? 10:11:46
16 you just mentioned, those are the same RIP and IGRP	16 A. Correct.
17 you were discussing earlier today; correct?	17 Q. Is BGP a commonly known acronym for Border
18 A. Yes.	18 Gateway Protocol?
<ol> <li>Q. You mentioned IS-IS.</li> </ol>	19 A. No, not common.
20 What is IS-IS? 10:04:00	20 Q. Okay. Is it a strike that. 10:11:54
A. This is another routing protocol that comes	Why do you use the term "BGP" to refer to
22 from the ISO protocol stack and the OSI standards	22 the Border Gateway Protocol?
23 body. It supports routing for both CLNP and IP.	A. So that's the acronym that is used within
Q. What is CLNP?	24 the industry.
25 A. Connectionless Network Protocol. 10:04:25 Page 42	Q. When you say that's the acronym that's used 10:12:10  Page 44
8 32 W 200 W 200 W 4 A	The second secon
1 Q. And is that protocol also an industry	1 within the industry, you're referring to the BGP
2 standard?	2 acronym; correct?
3 A. Itis.	3 A. Correct.
4 Q. What is the standard-setting body that	4 Q. And when you say "the industry," what do
5 manages CLNP? 10:04:37	5 you mean by "the industry"? 10:12:21
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	A COLOR OF CHARACTER
1 A. It is.	1 working for Cisco in 1991?
Q. Do you know when you first started using	2 A. Approximately three.
3 the acronym RIP?	3 Q. What was your familiarity with the command
4 A. 1991 when I came to Cisco.	4 line interface on Cisco's routers before you started
5 Q. And did you come up with the acronym RIP? 10:13:48	5 working at Cisco in 1991? 10:16:30
6 A. No, I did not.	6 A. So I used Cisco's CLI for those three years
7 Q. Where did you get that acronym from?	7 between '87 and 1991.
8 A. I heard it from coworkers first.	8 Q. What level of familiarity strike that.
<ol><li>Q. And you did not come with the acronym BGP;</li></ol>	9 Was OSPF a well-known acronym in the
10 correct? 10:14:07	10 networking industry? Actually, strike that. 10:17:02
11 A. Correct.	Is OSPF a well-known acronym in the
12 Q. Where did you first hear the acronym BGP?	12 networking industry?
A. From discussions on a Usenet mailing list.	13 A. Yes, it is very well-known.
14 Q. What is a Usenet mailing list?	14 Q. And when did you first hear of the acronym
15 A. Usenet was a system for exchanging 10:14:23	15 OSPF, Mr. Li? 10:17:12
16 messaging in a broadcast fashion, and there were	A. As part of my employment at Cisco.
17 groups within that where people would circulate	17 Q. Approximately when did you hear first
18 messages. And so there was a discussion of routing	18 hear of OSPF?
19 protocols, and I heard about it first through that.	19 A. About 1992.
Q. And what time period are you talking about 10:14:45	Q. Approximately how long has "OSPF" been a 10:17:23
21 here when you first heard the acronym BGP?	21 well-known term in the networking industry, to your
A. This would be somewhere between about 1985	22 knowledge?
23 to 1990.	MR. PAK: Objection. Calls for expert
Q. So that was before you started working at	24 testimony.
25 Cisco; correct? 10:15:01	THE WITNESS: I suspect at least 1989. 10:17:32
Page 46	Page 48
1 A. Correct.	1 BY MR. WONG: Q. Why do you say that,
Q. Is "IGRP" also a commonly used term in the	2 Mr. Li?
3 networking industry?	
	3 A. So there's work started on OSPF early on
4 A. It is.	A. So there's work started on OSPF early on     prior to my joining Cisco and prior to my learning
	[18] [18] [18] [18] [18] [18] [18] [18]
4 A. It is.	4 prior to my joining Cisco and prior to my learning
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2 A. I subsequently worked with them as part of	2 A. Not offhand.
3 IETF and learned of their involvement with OSPF.	3 Q. Is IS-IS a well-known acronym in the
4 Q. You worked strike that.	4 networking industry?
5 When did you work with those individuals as 10:19:31	5 A. Largely, no. 10:22:41
6 part of the IETF?	6 Q. How do you know the IS-IS acronym?
7 A. I started working with them in 1991. 8 Q. What companies, if you recall, did those	7 A. I'm part of a small group who've made use
9 individuals work for?	8 of the protocol. 9 Q. Is IS-IS a well-known acronym amongst those
10 A. John Moy represented Proteon. Milo Medin 10:19:50	10 who make use of the IS-IS protocol? 10:23:01
11 worked for NASA. Cathy Wittbrodt was at	11 A. Yes, it is.
12 Energy Sciences Network at as part of	12 Q. Why is it a smaller group that makes use of
13 Lawrence Livermore Labs.	13 the IS-IS protocol?
14 Q. Did any other vendors strike that.	14 A. So IS-IS is part of the ISO protocol stack
Did any other companies or organizations 10:20:20	15 which ended up not having a significant market 10:23:15
16 besides the ones you just mentioned participate in	16 share, and thus there's a very small user base.
17 OSPF standardization?	17 Only a very small portion of the I net IP
18 MR. PAK: Objection. Calls for	18 networking industry ended up using IS-IS, and so the
19 speculation. Calls for expert testimony.	19 number of people that use IS-IS for IP routing is
THE WITNESS: So I'm certain that several 10:20:32	20 very, very small. 10:23:38
21 others did. The best way to check would be to look	21 Q. How long has IS-IS been a well-known
22 at the IETF attendance records.	22 acronym amongst those who make use of the IS-IS
BY MR. WONG: Q. When you say you're	23 protocol, to your knowledge?
24 certain that several others did, why are you so	24 A. At least 1991.
25 certain? 10:20:43	25 Q. And when did when did you first hear of 10:23:50
Page 50	The state of the s
1 A. The IETF typically has dozens of people	1 the IS-IS acronym?
2 operating, working together on any given protocol.	2 A. 1991 when I joined Cisco.
3 Q. And how do you how do you know that,	3 Q. Is "IP" a well-known industry term in the
4 Mr. Li?	4 networking industry?
5 A. So that's I started participating in the 10:20:57	5 A. Very well. 10:24:07
6 IETF in 1991, and that's their standard way of	6 Q. In your view, what other acronyms are as
7 working.	7 well-known as IP in the networking industry?
8 Q. How many years have you been participating	8 MR. PAK: Objection. Calls for expert
9 in the IETF since 1991?	9 testimony.
0 A. I participated quite consistently up and 10:21:15	THE WITNESS: TCP, TCP/IP, WWW. 10:24:19
1 through about from 1991 to about 1999, and then	11 BY MR. WONG: Q. How long has IP been a
2 it's been sporadic since then.	12 well-known acronym in the networking industry?
Q. When you say the IETF typically has dozens	13 A. At least since 1983.
4 of people working together on any given protocol,	Q. And when did you first learn of the acronym
5 are those people from the same company or different 10:21:42	15 IP? 10:24:44
6 companies?	16 A. Approximately 1984 I took a class in
7 MR. PAK: Objection. Calls for	17 computer networking and read the first read the
8 speculation. Vague.	18 RFCs on IP.
9 THE WITNESS: Typically the group	19 Q. Is BGP a let me start that again.
0 working groups that are working on a protocol draw 10:21:54	20 Is "BGP" a well-known term in the 10:25:25
1 people from all sorts of different companies and	21 networking industry?
	22 A. It is.
2 organizations.	
[1] 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1	
<ul> <li>2 organizations.</li> <li>BY MR. WONG: Q. Can you think of any</li> <li>4 protocols from the IETF where different</li> </ul>	23 Q. How long has "BGP" been a well-known term 24 in the networking industry?

1	testimony.	1	What did that entail, maintaining DHCP
2	1	2	relay functionality in Cisco IOS?
3		100	A. Means that I had to look at the source
4	"BGP" has been a well-known term in the networking	4	code, read the DHCP RFC, test the behavior of the
5	5 industry since 1993? 10:25:47	5	Cisco DHCP relay and then repair the functionality 10:28:49
6	A. I'm an expert in BGP.	6	in the source code as necessary.
7	Q. Why do you say that you are an expert in	7	Q. At some point, Mr. Li, you left Cisco's
8	BGP?	8	employment; correct?
9	A. I helped deploy BGP throughout the	9	A. Several times.
10	Internet. 10:26:00	10	Q. When you started at Cisco in 1991, when did 10:29:12
11	Q. What did you do to help deploy BGP	11	you leave?
12	throughout the Internet?	12	A. I believe it was 1996.
13	A. So I was responsible for maintaining and	13	Q. What did you do after you left Cisco in
14	enhancing BGP. I was responsible for doing a great	14	1996?
	deal of bug fixing to BGP. And as part of that, I 10:26:17	15	A. After a while I joined Juniper Networks. 10:29:28
	ended up reimplementing much of Cisco's BGP code and	16	Q. And what was Juniper's business at the
	replacing the vast majority of the code that they	17	time?
	had.	18	
19		19	networking space.
	BGP? 10:26:43	20	Q. What was Juniper's main product at the 10:29:41
21	# 1 4 4 5 7 1 5 € 1 5 7	21	time?
	part of the Usenet group.	22	
23	TOTAL TOTAL STREET, MANAGEMENT OF THE STREET, THE STRE	197.79	first product was a router, the M40, and I believe
	networking industry?	24	that came out in 1998.
25	A. It is. 10:27:07 Page 54	25	Q. Did you work on the M40 Juniper router? 10:29:59 Page 56
1	Q. How long has "DNS" been a well-known term	1	A. I did.
2	in the networking industry, Mr. Li?	2	Q. Now, you said Juniper had no product
3	A. At least since late '80s.	3	initially.
4	Q. When did you first learn of the term "DNS"?	4	Did they have no product when you joined
5	A. I was a sys admin at USC at the time. 10:27:19	5	them in 1996? 10:30:16
6	Could have been anywhere from '83 on.	6	
7	Q. How do you know that "DNS" has been a	7	had I was Employee No. 5. We had an office, and
8	well-known term in the networking industry since the	8	that was it.
9	late 1980s?	9	Q. Who were Juniper's competitors?
10	A. So I would helped convert USC from using 10:27:40	10	
11	host text, which was previous system, to using DNS.	11	
12	Q. Is "DHCP" a well-known term in the		exactly when. There was another company called
13	networking industry?		NetStar. Wellfleet. Proteon had not quite gone
14			under.
15		15	That's all I can remember. 10:31:03
	in the networking industry?	16	Q. Now, you said you were Employee No. 5;
17			correct?
18	Q. When did you first hear of the acronym	18	
19	DHCP?	19	Q. Where did the other first employees at
CONTRACT.			Juniper come from? 10:31:15
20		21	A. So the founder Pradeep Sindhu was coming
20 21		-	
20 21 22	1991?		out of Xerox PARC and Sun. Bjorn Liencres I believe
20 21 22 23	1991? A. I helped maintain DHCP relay functionality	23	was Sun. Dennis Ferguson, I knew him through IETF,
20 21 22 23	1991?	23 24	

1			acronym was designated by the IETF.
- 37	that.	2	
3			designated by the IETF"?
4		4	
5			migrate to, decided that we should all refer to 11:49:10
6	Mr. Li?	100	version 6 of the protocol as IPv6.
7	<ul> <li>A. So Yakov and I coauthored or coedited this</li> </ul>	7	
8	document in an attempt to document a routing		that we all should refer to version 6 of the IP
9	protocol architecture a routing architecture for	9	protocol as IPv6?
10	IPv6. 11:46:45	10	
11	Q. What is IPv6?	11	
12	A. That is the next version of the Internet	12	
13	Protocol. What a widely deployed right now today is	13	Q. Were there more than one vendor part of
14	known as IPv4. It has the problem that it does not	14	that discussion?
15	have enough address space and can only support about 11:46:59	15	A. Yes, many. 11:49:40
16	4 billion hosts.	16	Q. Do you recall if Cisco was part of that
17	IPv6 is a the next version that has been	17	discussion?
18	approved by the IETF and we're currently	18	A. I believe so.
19	transitioning to IPv6, slowly.	19	the control of the co
20	Q. We're currently transitioning today, you 11:47:17	20	discussion? 11:49:48
21	mean?	21	A. I believe so.
22	A. Yes. Twenty years and counting.	22	Q. Were there any other acronyms relating to
23	Q. And I'm sorry. What was the date on the	23	routing protocols that the IETF decided should be
24	document marked as Exhibit 138, Mr. Li?	24	used to refer to those protocols?
25	A. That appears to be March 1995. 11:47:33	25	A. Yes, many. 11:50:05
	Page 106		Page 108
1	Q. Was this document strike that.	1	Q. What protocols did the IETF decide that
2	When was the first version of the document	2	everyone in the network industry should use in
3	marked as 138 completed, to your knowledge?	3	addition to IPv6?
4	A. I would have to check my notes to be	4	MR. PAK: Objection. Calls for expert
5	precise but somewhere approximately 1994. 11:48:04	5	testimony. 11:50:18
6	Q. Turning back to Exhibit 139, Mr. Li, what	6	THE WITNESS: So OSPF, BGP, RSVP, LDP,
7	is the date on this document?	7	HTTP.
8	A. December 1995.	8	BY MR. WONG: Q. Was "IS-IS" a a
9	Q. Is that the publication date for this RFC?	9	term strike that.
10	A. Yes, it is. 11:48:19	10	Did the IETF have any role in the decision 11:50:50
11	Q. And was the document that is shown		for IS-IS to be used by the networking industry?
12	Exhibit 139, was that completed before the	12	A. Somewhat. Again, IS-IS was originally
13	publication date shown on Exhibit 139?	13	standardized outside of the IETF. The IETF had the
14	A. Yes, it was.		responsibility of managing the usage of IS-IS for
15	Q. Do you know approximately when? 11:48:34		Internet Protocol routing. 11:51:14
16	A. Somewhere between '93 and '94.	16	Q. And to your knowledge, Mr. Li, based on
17	Q. Did you come up with the term "IPv6,"		your experience working in the industry, did various
18	Mr. Li?		vendors use those acronyms that you just listed out
19	A. No, I did not.		for me?
20	Q. Do you know who? 11:48:42	20	A. Yes, frequently. 11:51:38
21	A. No. Can't be specific.	21	Q. To what extent was there any belief that
22	Q. Is IPv6 a well-known acronym in the	22	these acronyms for routing protocols were
AN AM	networking industry?		proprietary to any single vendor?
	A. Yes, it is. It is a well-known acronym for	24	MR. PAK: Objection. Calls for
23 24			MR. PAK: Objection. Calls for speculation. 11:51:58

18 December 1995, was "domain" a well-known industry 19 term? 19 A. Bay and I'm sorry. 20 MR. PAK: Objection. Vague. 21 THE WITNESS: No, it was not well-known and 22 still is not very well-known. 23 MR. WONG: Let's mark this one as 140, 24 please. 28 Wellfleet acquired by Bay Networks? 29 Yes. Bay Bay was the merger of Synoptix 11:57:52 21 and Wellfleet, and I believe he was on the Wellfleet 22 side. 23 Q. And why do you think that Mr. Haskin came 24 up with the phrase "Route Reflection"?		
BY MR. WONG: Q. And on what facts do you 4 base that opinion, Mr. Li? 5 A. So the acronyms were never published with a 11:52:06 6 trademark or copyright notice attached to them. 7 Q. Did you ever believe personally that the 8 use of OSPF, BGP, IP or any of the other acronyms 9 that we've been discussing today were proprietury to 10 any vendor? 11:52:32 11 A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to a vendor? 11:52:48 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 11:53:08 21 a. A. That's correct. 22 Q. Turning back to Exhibit 139, Mr. Li. first 23 page further down, accord paragraph from the bottom, 24 fine wond "domain" is used. 25 Do you see that? 11:53:23 26 Do you see that? 11:53:31 3 Q. And how do you.—how do you know when Dr. Rechter came up with 4 the life wond "domain"? 4 A. No. 12 Do you know when Dr. Rechter came up with 5 A. Delicev took with both of those 11:57:17 11 if flowed from his work in DRP into both his 10 is semantically equivalent to Autonomous System, and 11:53:49 11 if flowed from his work in DRP into both his 12 open further down, and the BGP specification. 13 Q. And how do you.—how do you know that, 11 14 Mr. Li? 15 A. Direct work with both of those 11:57:17 11 if level from his work in DRP into both his 12 open further down, and the BGP specification. 13 Q. And how do you.—how do you know that, 11 14 Mr. Li? 15 A. Direct work with both of those 11:57:17 11 if level from his work in DRP into both his 12 open further down, and the BGP specifications 13 Q. And how do you.—how do you know that, 11 14 Mr. Li? 15 A. Direct work with both of those 11:57:17 16 A. Rispending for the development and 11:57:17 17 Q. Okay, By the time of this RPC, 18 December 1995, was "domain" a wel	1 THE WITNESS: So the acronyms were never	1 by the court reporter and is attached hereto.)
4 Nos. ARISTANDCA00025927 to -25933. 5 M. L. have you seem his document before? 11:55:28 for trademark or copyright notice statched to them. 7 Q. Did you ever believe personally that the sus or OSFF, BGP, IP or any of the other acronyms 9 that we've been discussing today were proprietary to 10 any vendor? 11:52:32 13. A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to any vendor? 11:52:48 15 the networking industry, you have been 18 working in the networking industry, you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 11:53:08 20 acronyms were proprietary to a single vendor? 11:53:08 20 acronyms were proprietary to a single vendor? 11:53:08 20 acronyms were proprietary to a single vendor? 11:53:08 21 A. That's correct. 22 Q. Tuming back to Eschibit 139, Mr. Li, first 22 page furtiler down, second paragraph from the bottom, 24 the word "domain" is used. 22 page furtiler down, second paragraph from the bottom, 24 the word "domain" is used. 25 Do you see that? 11:53:23 Page 110 1 A. BGP Route Reflection? 11:56:34 Page 110 1 (I now of from his work in DRP into both this 10 is sensated by equivalent to Autonomous System, and 11:53:49 1 (I now of from his work in DRP into both this 11 (I now of from his work in DRP into both this 11 (I now of from his work in DRP into both this 12 (I now of from his work in DRP into both this 12 (I now of from his work in DRP into both this 12 (I now of from his work in DRP into both this 12 (I now of from his work in DRP into both this 12 (I now of from his work in DRP into both this 12 (I now of from his work in DRP into both this 13 (I now of from his work in DRP into both this 13 (I now of from his work in DRP into both this 13 (I now of from his work in DRP into both this 13 (I now of from his work in DRP into both	2 proprietary.	2 BY MR. WONG: Q. The court reporter has
5 A. So the acronyms were never published with a 11:52:06 for trademark or copyright notice attached to them. 7 Q. Did you ever believe personally that the 8 use of CSPF, BGP, IP or any of the other acronyms that we've been discussing today were proprietary to 10 any vendor? 11:52:32 11 A. No. 10 any vendor? 11:52:32 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to any vendor? 11:52:48 15 these acronyms were proprietary to any vendor? 11:52:48 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 11:53:08 21 A. That's correct. 22 Q. Turning back to Exhibit 139, Mr. Li, first 23 page further down, second pangraph from the bottom, 24 the word "domain" 11:53:29 2 Do you see that? 11:53:29 2 Do you see that? 11:53:39 14 A. Yes. 2 Q. Did you cent up with the word "domain" 11:53:39 16 Q. Do you know when Dr. Rechter came up with 1 the tword "domain" 11:53:49 16 Q. Do you know when Dr. Rechter came up with 1 the tword "domain" 11:53:49 17 the meme "domain" 12:54:59 (Q. Do you know when Dr. Rechter came up with 1 the tword "domain" 13:54:59 (Q. Do you know when Dr. Rechter came up with 1 the tword "domain" 13:54:59 (Q. Do you know when Dr. Rechter came up with 1 the tword "domain" 14:54:59 (Q. Do you know when Dr. Rechter came up with 1 the tword "domain" 15:54:59 (Q. Do you know when Dr. Rechter came up with 1 the tword "domain" 15:54:59 (Q. Do you know when Dr. Rechter came up with 1 the tword "domain" 15:54:59 (Q. Do you know when Dr. Rechter came up with 1 the tword "domain" 15:54:59 (Q. Do you know when Dr. Rechter came up with 1 the word "domain" 15:54:59 (Q. Do you know when Dr. Rechter came up with 1 the word "domain" 15:54:59 (Q. Do you know when Dr. Rechter came up with 1 the word "domain" 15:54:59 (Q. Do you know	3 BY MR. WONG: Q. And on what facts do you	3 marked as Exhibit 140 a document bearing Control
6 trademark or copyright notice attached to them. 7 Q. Did you ever believe personally that the 8 use of OSPR, BGP, IP or any of the other acronyms 9 that we've been discussing today were proprietary to 10 any vendor? 11:25:32 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to any vendor? 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 21 A. That's correct. 22 Q. Tuming back to Eshibit 139, Mr. Li, linst 23 page further down, accord paragraph from the bottom, 24 fite word 'domain' is used. 25 Do you know when Dr. Rechier one up with 4 Q. Do you know when did? 4 Q. Did you come up with the word 'domain'? 5 A. No. I did not 4 Q. Do you know when Dr. Rechier came up with 7 the name 'domain'' 8 A. No. I did not 9 during the work for IDRP, and that flowed - and is 10 g. And how do you - how do you know industry 11 if flowed from his work in IDRP flot both his 12 decument and the BGP pecification. 13 Q. And how do you - how do you know industry 14 flore work in the man with the more of this RFC, 15 December 1995, was 'domain' a well-known industry 16 companies in the server of the document marked as Exhibit 1407 11 if flowed from his work in IDRP flot both his 12 decument of BGP, we found that we had numerous 11:56-02 11 if flowed flows, accord paragraph from the bottom, 22 ment of the development and 23 ment of the document marked as Exhibit 1407 14 this document. As part of the document marked as 12 Eshibit 1407 13 A. So I helped discuss many of the concepts in 14 this document. As part of the document marked as 12 Eshibit 1407 13 A. So I helped discuss many of the concepts in 14 this document. As part of the document marked as 14 this document. As part of the document marked as 14 this document. As part of the document marke	4 base that opinion, Mr. Li?	4 Nos. ARISTANDCA00025927 to -25933.
7 Q. Did you over believe personally that the 8 use of CSPP, BGP, Br or any of the other acronyms 10 any vendor? 11:52:32 10 A. No. 11 A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to any vendor? 11:52:48 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to any vendor? 11:53:08 21 A. Tharks correct. 22 Q. Turning back to Eabibit 139, Mr. Li, liss 23 page further down, second paragraph from the bottom, 24 the word "domain" is used. 25 Do you know who did? 26 A. Delieve that he came up with the word "domain"? 3 A. No. Idd faro? 4 Q. Do you know when Dr. Rechter came up with 7 the name "domain"? 3 A. No. Idd faro? 4 Q. Do you know when Dr. Rechter came up with 7 the name "domain"? 5 A. Delieve that he came up with that from 9 during the work for IDRP, and that flowed — and is 10 is semantically equivalent to Autonomous System, and 11:53:58 10 is prediction. 17 Q. Okey, By the time of this RPC, 18 December 1995, was "domain" awell-known industry 19 term? 20 MR. PAK: Objection. Vague. 11:54:10 21 MR. WONG: Let's mark this one as 140, 22 (C. Bublit 140 was marked for identification 11:54:45 25 (D. Mr. Wong). Let's mark this one as 140, 24 (D. Mr. Wong). Earls mark this one as 140, 25 (D. Mr. Wong). Let's mark this one as 140, 26 (Mr. WONG: Let's mark this one as 140, 27 (Mr. Wong). Page Bay was the merger of Synoptix 11:57:52 28 (Mr. Wong). Let's mark this one as 140, 29 (Mr. WONG: Let's mark this one as 140, 20 (Mr. Wong). Page Bay was the merger of Synoptix 11:57:52 21 and Wellfleet, and I believe the was on the Wellfleet 22 side. 23 (D. Wong) the time of this RPC, 24 (D. And why do you this that Mr. Haskin came 25 (D. Mr. Wong). Let's mark this one as 140, 29 (Mr. Wong). Page Bay was the merger of Synoptix 11:57:52 20 (Mr. Wong	5 A. So the acronyms were never published with a 11:52:06	5 Mr. Li, have you seen this document before? 11:55:28
8 use of OSPF, BGP, IP or any of the other acronyms 9 that we've been discussing today were proprietary to 10 any vender? 11:52:32 11 A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody clase that you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to any vendor? 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 11:53:08 21 A. That's correct. 22 Q. Tarming back to Exhibit 139, Mr. Li, first 23 page further down, second paragraph from the bottom, 24 the word 'domain' is used. 25 Do you see that? 26 Q. Did you come up with the word "domain"? 27 A. No. Idd not. 28 Q. Did you come up with the word "domain"? 39 A. No. Idd not. 30 Q. Did you know who did? 40 Q. Do you know who did? 51 A. No. Idd not. 52 Q. Did you come up with the word "domain"? 53 A. No. Idd not. 54 Q. Do you know who did? 55 A. Delieve that was Dr. Rechter came up with the term of during the work for IDRP, and that flowed and it on it is semantically equivalent to Auronomous System, and 11:53:58 11 any, in the creation of the document and the document and a document and sour proposal. 12 Exhibit 1407 13 A. So I helped discuss many of the concepts in 14 this document. As part of the development and 15:56:02 14 this document. As part of the development and 15:56:02 15 deployment of BGP, we found that we had numerous 11:56:02 16 deployment of BGP, we found that we had numerous 11:56:02 17 There were several approaches proposed. I helped work on the Route Reflection proposal. 19 Some of the original work was proposed by 20 Dimitry Haskin of Bay Networks. And as part of the 11:56:02 21 DR working group, we jointly discussed and came up 22 with this proposal. 22 Dimitry Haskin of Bay Networks and 11:56:02 23 DR what was gour involvement, if 11:55:45 24 Up the actual document any sus set in the set work in the Re	6 trademark or copyright notice attached to them.	6 A. I believe so.
9 Rouie Reflection. 10 any vendor? 11:52:32 11 A. No. 12 Q. In your experience at multiple companies in 13 the networking industry, did anybody else that you 14 worked with express the belief to you that any of 15 these acronyms were proprietary to any vendor? 15 these acronyms were proprietary to any vendor? 16 A. No. 17 Q. So in the 25 years that you have been 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 18 working in the networking industry, you have not 19 heard anybody express the belief that any of these 20 acronyms were proprietary to a single vendor? 20 acronyms were proprietary to a single vendor? 21 A. That's correct. 22 Q. Turning bick for Exhibit 139, Mr. Li, first 23 page further down, second paragraph from the bottom, 24 the word "domain" is used 25 boy ou see that? 25 Doyou see that? 26 Doyou see that? 27 Doyou know who doid? 28 A. Delieve that was Dr. Rechter a 11:53:23 the more domain. 30 A. No. 1 did not. 40 Q. Doyou know when Dr. Rechter and up with 4 for many "domain." 41 A. Delieve that was Dr. Rechter and up with 4 for many "domain." 42 A. Delieve that has Dr. Rechter and up with 4 for many "domain." 43 A. No. 1 did not. 44 Q. Doyou know when Dr. Rechter and up with 4 for many "domain." 45 A. Delieve that has Dr. Rechter and up with 4 for many "domain." 46 Q. Doyou know when Dr. Rechter and up with 4 for many "domain." 47 It is many "domain." 48 A. Delieve that has Dr. Rechter and up with 4 for many "domain." 49 A. Delieve that has Dr. Rechter and up with 4 for many "domain." 40 Q. On you know when Dr. Rechter and up with 4 for many "domain." 41 G. Q. And how do you how do you know than 1 for the form the	<ol> <li>Q. Did you ever believe personally that the</li> </ol>	7 Q. What is the document marked as Exhibit 140?
10 any vendor? 11:52:32	8 use of OSPF, BGP, IP or any of the other acronyms	8 A. It appears to be a copy of RFC 1966, BGP
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25 Do you see that?	23 page further down, second paragraph from the bottom,	23 Mr. Bates and Mr. Chandra eventually wrote
Page 110  A. Yes,  O. Did you know who did?  A. No, I did not.  O. Do you know who did?  A. I believe that was Dr. Rechter.  O. Do you know when Dr. Rechter came up with  the name "domain"?  O. Do you know who for IDRP, and that flowed and it  or is semantically equivalent to Autonomous System, and 11:53:49  It if the Mr. Li?  A. Direct work with both of those 11:53:58  Sepecifications.  A. Direct work with both of those 11:53:58  December 1995, was "domain" a well-known industry term?  MR. PAK: Objection. Vague. 11:54:10  MR. PAK: Objection. Vague. 11:54:10  MR. WONG: Let's mark this one as 140, 24 please.  J. A. Belleve heads the sene cup with the word "domain"?  J. A. BGP Route Reflection is a mechanism for 2 taking routing information and reflecting it from 3 one router to another through a third router. This 4 allows for better scalability because it fixes the 5 problem where BGP previously had where all BGP 11:57:03  Froblem where BGP previ	24 the word "domain" is used.	24 up the actual document as you see it here.
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1	I, the undersigned, a Certified Shorthand	
2	Reporter of the State of California, do hereby	
3	**************************************	
4	That the foregoing proceedings were taken	
5	before me at the time and place herein set forth;	
	that any witnesses in the foregoing proceedings,	
	a record of the proceedings was made by me using	
	machine shorthand which was thereafter transcribed	
	under my direction; that the foregoing transcript is	
12	a true record of the testimony given.  Further, that if the foregoing pertains to	
	the original transcript of a deposition in a Federal	
	Case, before completion of the proceedings, review	
16	I further certify I am neither financially	
17	ages ages 그리고 있는 이 가의 설계되었다. 이 가장 그리고 이 이번 전에 가면 있다면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 보고 모으는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하	
18	of any attorney or any party to this action.	
19	IN WITNESS WHEREOF, I have this date	*
20	subscribed my name.	
21	Dated: February 3, 2016	
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23		
	Cham IN	
24	Susan F. Magee	
25	CSR No. 11661, RPR, CCRR, CLR	
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                 NORTHERN DISTRICT OF CALIFORNIA
 3
                       SAN JOSE DIVISION
 4
 5
     CISCO SYSTEMS, INC.,
 6
                   Plaintiff,
 7
                                  No. 5:14-cv-05344-BLF(PSG)
     vs.
 8
     ARISTA NETWORKS, INC.,
 9
                   Defendant.
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11
        CONFIDENTIAL PURSUANT TO THE PROTECTIVE ORDER
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13
                 VIDEOTAPED DEPOSITION OF TONG LIU
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                      FRIDAY, JANUARY 15, 2016
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                       PALO ALTO, CALIFORNIA
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     Reported by:
     ANDREA M. IGNACIO, CSR, RPR, CRR, CCRR, CLR
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     CSR LICENSE NO. 9830
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     JOB NO. 2211574
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     Pages 1 - 215
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1 A P P E A R A N C E S: 2 3 EXHIBIT PAGE 4 ON BEHALF OF THE PLAINTIFF CISCO SYSTEMS, INC., and 5 the WITNESS: 6 QUINN EMANUEL URQUHART & SULLIVAN, LLP 6 commands, Bates CSI-CLI-00608739 7 By: SEAN S. PAK, Esq. 7 - '40; 2 pgs. 8 50 California Street, 22nd Floor 9 San Francisco, California 94111 10 Phone: 415.875.6600 11 seanpak@quinnemanuel.com: 1 E X H I B I T S (Continued.) 2 3 EXHIBIT PAGE 4 Exhibit 96 6-25-08 E-mail, Subject: Seeking 124 5 the WITNESS: 5 permission for adding PTP CLI 6 commands, Bates CSI-CLI-00608739 7 - '40; 2 pgs. 8 Exhibit 97 6-26-08 E-mail, Subject: Seeking 128 9 permission for adding PTP CLI 10 commands, Bates CSI-CLI-00846656 11 - '57; 2 pgs.	r	CONTIDENTIAL LORGOANT	1	
3 SAN JOSE DIVISION   4   4   4   4   4   4   4   4   4	1	UNITED STATES DISTRICT COURT	1	INDEX
4   5   EXAMINATION   PAGE	2	NORTHERN DISTRICT OF CALIFORNIA	2	
S CISCO SYSTEMS, INC.,   6   Plaintiff,   7 va. No. 5:14-ev-0344+BLF(PSG)   7 va. No. 5:14-ev-0344+BLF(PSG)   8   ARISTA NETWORKS, INC.,   9   Defendant.   9   E X H I B I T S   10   EXHIBIT   PAGE   11   Exhibit 92   Amended Exhibit F; 45 pgs. 67   12   Exhibit 93   IEEE Standard for a Precision   84   13   Clock Synchronization Protocol   13   Clock Synchronization Protocol   14   For Networked Measurement and   15   Friday, January 15, 2016, pursuant to notice, on   14   For Networked Measurement and   15   Friday, January 15, 2016, pursuant to notice, on   14   For Networked Measurement and   15   Clock Synchronization Protocol   10   Control Systems, Bates   16   ARISTANDCA00031733 - 32021;   289 pgs.   18   Exhibit 93   IEEE   1588 Precision Tine Protocol   100   19   Platform-Independent Software   100   Platf	3	SAN JOSE DIVISION	3	WITNESS: Tong Liu
Plaintiff,   7 vs.   No. 5:14-to-05344-BEF(PSG)   7 By Mr. Wong   7, 207   7 By Mr. Pak   185   8 ARISTA NETWORKS, NC.,   8   9 EX H I B I T S   1	4		4	
7 No. 5:14-ev-05344-BLF(PSG)   7 By Mr. Pak   185	5	CISCO SYSTEMS, INC.,	5	EXAMINATION PAGE
8 ARISTA NETWORKS, INC., 9 Defendant. 9 Defendant. 9 Defendant. 9 Defendant. 10 EXHIBIT PAGE 11 Exhibit 92 Amended Exhibit F; 45 pgs. 67 12 Exhibit 93 IEEE Standard for a Precision 84 13 Clock Synchronization Protocol 13 Clock Synchronization Protocol 14 for Networked Measurement and 15 Friday, January 15, 2016, pursuant to notice, on 16 behalf of the Defendants, at 610 Page Mill Road, 16 behalf of the Defendants, at 610 Page Mill Road, 16 behalf of the Defendants, at 610 Page Mill Road, 17 Palo Ala, California before me, ANDREA M. IGNACIO, 18 CSR, RPR, CRR, CCRR, CLR - CSR License No. 9830 16 ARISTANDCAO031733 - '32021; 289 pgs. 18 Exhibit 94 IEEE1588 Precision Tine Protocol 100 Paleform-Independent Software 20 Functional Specification, Bates 21 CSI-CLI-00610555 - '81; 27 pgs. 22 Exhibit 95 6-25-08 E-mail, Subject: Seeking 122 permission for adding PTP CLI 24 comments; Bates CSI-CLI-00846643; 25 1 pg. Page 4 Exhibit 96 6-25-08 E-mail, Subject: Seeking 124 5 the WITNESS: 1 PAGE 4 Exhibit 96 6-25-08 E-mail, Subject: Seeking 124 5 Exhibit 97 6-26-08 E-mail, Subject: Seeking 125 5 permission for adding PTP CLI 25 2 permission for adding PTP CLI 26 2 permission for a	6	Plaintiff,	6	By Mr. Wong 7, 207
Defendant.	7	vs. No. 5:14-cv-05344-BLF(PSG)	7	By Mr. Pak 185
10   EXHIBIT   PAGE   11   EXHIBIT   PAGE   12   Exhibit 92   Amended Exhibit F; 45 pgs. 67   12   Exhibit 93   IEEE Standard for a Precision   84   13   Clock Synchronization Protocol   13   Clock Synchronization Protocol   14   for Networked Measurement and   15   Friday, January 15, 2016, pursuant to notice, on   15   Friday, January 15, 2016, pursuant to notice, on   16   behalf of the Defendants, at 610 Page Mill Road,   16   behalf of the Defendants, at 610 Page Mill Road,   16   ARISTANDCA00031733 - '32021;   289 pgs.   18   Exhibit 94   IEEE 1588 Precision Tine Protocol   100	ı		8	
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19			18	Exhibit 94 IEEE1588 Precision Tine Protocol 100
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Page 2   Page 4	24		24	comments; Bates CSI-CLI-00846643;
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2   3   EXHIBIT   PAGE		Page 2		Page 4
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5 the WITNESS:         5 permission for adding PTP CLI           6 QUINN EMANUEL URQUHART & SULLIVAN, LLP         6 commands, Bates CSI-CLI-00608739           7 By: SEAN S. PAK, Esq.         7 - '40; 2 pgs.           8 50 California Street, 22nd Floor         8 Exhibit 97 6-26-08 E-mail, Subject: Seeking 128           9 San Francisco, California 94111         9 permission for adding PTP CLI           10 Phone: 415.875.6600         10 commands, Bates CSI-CLI-00846656           11 seanpak@quinnemanuel.com:         11 - '57; 2 pgs.           12 Exhibit 98 Cisco Nexus 7000 Series NX-OS 157           13 System Management Command           14 ON BEHALF OF THE DEFENDANT ARISTA NETWORKS, INC.:         14 Reference, Bates CSI-CLI-00194055           15 KEKER & VAN NEST LLP         15 - '9480; 626 pgs.           16 By: RYAN WONG, Esq.         16           17 eOO         18           18 Francisco, California 94111-1809         18           19 Phone: 415.773.6682         19 PREVIOUSLY MARKED EXHIBITS           20 rwong@kvn.com         20           21 Exhibit 53 CLI Design and Review Guide, Bates           22 CSI-ANI-00073381 - '.000014; 15 pgs.           23OO         24           25	3		3	EXHIBIT PAGE
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Page 3 Page 5	25		25	
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1 PALO ALTO, CALIFORNIA 2 FRIDAY, JANUARY 15, 2016 3 9:32 A.M. 4 9:32 A.M. 4 9:32 A.M. 4 0 Chay, Have you gone by Toni Liu for – for 5 5 6 7 THE VIDEOGRAPHER: Good morning. We are on 8 the record at 9:32 on January 15th of the year 2016. 9 This is the video deposition of Tong Liu. 10 My name is Kevin Foor. I'm here with court 11 reporter Andrea Ignacio. And we are here from 12 Veritext Legal Solutions at the request of Keker & 13 Van Nost. 14 This deposition is being held at Wilson 15 Sonsini Goodrich & Rosati in Palo Alto. 16 The caption of the case is Cisco Systems, 17 Inc., v. Arista Networks. That is case 514-CV-05344 18 ELF BSG. 19 Please note that audio and video recording 20 will take place unless all parties agree to go off the 21 record. Microphones are sensitive and may pick up 22 whispers, private conversations, and cell 23 interference. 24 I'm not related to uny party in this action, 25 nor am I interested financially in the outcome in any Page 6 1 way. 2 If there are any objections to proceeding, 3 please state them at the time of your appearance. 4 And if you would please state your 5 appearances. 6 MR. WONG: Ryan Wong from Keker & Van Nest 6 MR. WONG: Ryan Wong from Keker & Van Nest 7 for defendant Arists Networks. 8 MR. PAK: Sean Pak of Quinn Emanuel, 9 representing Cisco and the witness, 10 THE VIDEOGRAPHER: Thank you. 11 If the court reporter would please swear the 12 witness, we can begin. 13 TONG LIU, 14 Q Okay. Have you seen the subpoena issued in 12 this lawsuit? 15 having been sworn as a witness 16 by the Certified Storthand Reporter, 17 testified as follows: 18 EXAMINATION 19 Page 5 20 Q Good morning, Ms. Liu. 21 Q Good morning, Ms. Liu. 22 A Good morning, 23 Q Please state your full name for the record. 24 A Tong Liu. 25 Q Good morning, Ms. Liu. 26 Q Good morning, 27 A Cauda do you understand that you are 28 testifying here today in response to a subpoena issued in 12 this lawsuit? 11 G Q Good morning, Ms. Liu. 22 Q Good morning, Ms. Liu. 23 Q Good morning, Ms. Liu. 24 Q Good morning, M		
3	1 PALO ALTO, CALIFORNIA	1 A At work, I go with Toni.
4 Q Okay. Have you gone by Toni Liu for — for 5 what period of time have you gone by Toni Liu? 6 A That name is only used at work. It's not an 7 officially alternative name. 8 Q And besides Toni Liu, have you gone by any 9 other names, Ms. Liu? 10 My name is Kevin Foor. I'm here with court 11 reporter Andrea Ignacio. And we are here from 12 Veritext Legal Solutions at the request of Keker & 13 Van Nest. 14 This deposition is being held at Wilson 15 Sonsini Goodrich & Rosati in Palo Alto. 15 The Liu, have you gone by any 9 other names, Ms. Liu? 16 Q Could you please state your home address. 17 A No. 18 ELF BSG. 18 Pales note that audio and video recording 19 Please note that audio and video recording 19	2 FRIDAY, JANUARY 15, 2016	2 Q Could you spell Toni for me, please.
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6 A That name is only used at work. It's not an 7 officially alternative name. 8 (And besides Toni Liu, have you gone by any 9 other names, Ms. Liu? 9 other names, Ms. Liu; 10 A No. 11 reporter Andrea Ignacio. And we are here from 12 Veritext Legal Solutions at the request of Keker & 13 Van Nest. 13 Van Nest. 14 This deposition is being held at Wilson 15 Sonsini Goodrich & Rosati in Pato Alto. 15 The caption of the case is Cisco Systems, 17 Inc., v. Arista Networks. That is case 514-CV-05344 18 ELF BSG. 19 Please note that audio and video recording 20 will take place unless all parties agree to go off the 21 record. Microphones are sensitive and may pick up 22 whispers, private conversations, and cell 23 interference. 24 The not related to any party in this action, 25 nor am I interested financially in the outcome in any 2 may. 2 If there are any objections to proceeding, 3 please state them at the time of your appearance. 3 Page 8   way. 2 If there are any objections to proceeding, 3 please state them at the time of your appearance. 4 And if you would please state your 5 appearances. 5 MR. PAK: Sean Pak of Quina Emanuel, 9 representing Cisco and the witness. 6 MR. WONG: Ryan Wong from Keker & Van Nest 7 for defendant Arista Networks. 8 MR. PAK: Sean Pak of Quina Emanuel, 19 the court reporter would please swear the 12 witness, we can begin. 13 TONG LIU, 15 having been sworn as a witness 16 by the Certified Shorthand Reporter, 17 testified as follows: 16 Jan Page 18 A Coult on the what those are. 17 A toniclin@yahoo.com. 18 Q Okay. Any other e-mail addresses? 19 A iiu.toni@gmail.com. 20 D you have a work address for Aruba 24 Networks. 23 A toniliu@arubanetworks.com. 4 Q Now, Ms. Liu, are you represented by counsel 5 at this deposition? 5 A Yes. 10 Q Doyou have a work e-mail address for your 2 job at Aruba? 2 have work a date of the country of the co	4	4 Q Okay. Have you gone by Toni Liu for for
THE VIDEOGRAPHER: Good morning. We are on 8 the record at 9:32 on January 15th of the year 2016.  This is the video deposition of Tong Liu.  My name is Kevin Foor. I'm here with court 11 reporter Andrea Ignacio. And we are here from 12 Veritext Legal Solutions at the request of Keker & 13 Van Nest.  The reporter Andrea Ignacio. And we are here from 12 Veritext Legal Solutions at the request of Keker & 13 Van Nest.  This deposition is being held at Wilson 15 Sonsini Goodrich & Rosati in Palo Alto.  The caption of the case is Cisco Systems, 15 Condition of the case is Cisco Systems, 17 Inc., v. Arist Networks. That is case 514-CV-05344 18 ELF BSG.  Please note that audio and video recording 20 will take place unless all parties agree to go off the 21 record. Microphones are sensitive and may pick up 22 whispers, private conversations, and cell 22 whispers, private conversations, and cell 23 interference.  The not related to any party in this action, 25 nor am I interested financially in the outcome in any appearances.  And if you would please state your 5 appearances.  And if you would please state your 5 appearances.  MR. PAK: Sean Pak of Quinn Emanuel, 9 representing Cisco and the witness.  THE VIDEOGRAPHER: Thank you. 11 (Quent reporter would please swear the 12 witness, we can begin. 13 The United Stortland Reporter, 12 (Quent reporter would please swear the 12 witness, we can begin. 13 Condition of the case is Cisco State them at the time of your appearance. 14 (Quent reporter would please swear the 12 witness, we can begin. 15 (Quent reporter would please swear the 16 (Quent reporter would please swear the 17 (Quent reporter would please swear the 18 (Quent reporter would please swear the 19 (Quent reporter would pleas	5	5 what period of time have you gone by Toni Liu?
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1	starting in 2008."	1	actually, are you on page 7?
2	Do you see that?	2	A Yes.
3	A Yes.	3	Q At the bottom of page 7, there is a
4	Q Did I read that correctly?	4	section 3.2 called "Acronyms and Abbreviations."
5	A Yes.	5	Do you see that?
6	Q Is that referring to the implementation that	6	A Right.
7	you did, Ms. Liu?	7	Q These are acronyms and abbreviations that are
8	A Yes. We were DSBU, and X-Men 2 was the	8	used in the PTP IEEE standard; correct?
9	internal release number we were using for	9	A Yes.
10	Q Did you come up with X-Men 2?	10	Q And, on the following page, page 8, there is
11	A Do the	11	an acronym PTP there.
12	병원들은 그리지 않는 생물수를 하면 하는 것이다고 하고 있는 사람들은 이렇게 되었다면 하지 않는 것이다고 있다고 있다면 하다 하지 않는 것이다고 있다면 하다 되었다면 하다 되었다.	12	Do you see that?
13	A No.	13	A Yes.
14	They came up with X-Men 2. We were using it	. 14	Q It stands for precision time protocol?
15	Q And what does DSBU stand for?	15	A Yes.
16	[	16	Q So it was well known that PTP meant precision
17		17	time protocol; correct?
18	[1847] [10] - "지어난 경향 - "전교회 (1855년 18일 18일 18일 18일 18일 (1834년 18일	18	MR. PAK: Objection; calls for speculation;
19	Q And was the IE 3000 platform is that the	19	assumes facts not in evidence; calls for expert
20	industrial Ethernet device that we've been talking	20	testimony.
100000000	about?	21	THE WITNESS: When you say "well known," is
22		22	it what's the scope of well known?
23		23	MR. WONG: Q. It was well known by people in
24			the networking industry, right
25		25	MR. PAK: Same
	Page 102		Page 104
1	document in front of you.	1	MR. WONG: Q that PTP meant precision
2		2	time protocol?
3	Q You did not come up with the term PTP;	3	MR. PAK: Same objections.
4	correct?	4	THE WITNESS: I don't think it's well known
5	A No.	5	in the entire networking industry.
6	Q The the acronym PTP was in use before you	6	MR. WONG: Okay.
100	began implementing PTP functionality into Cisco's	7	Q Was there a subset of the networking industry
1 60	industrial Ethernet device; correct?		where PTP was known to refer to the PTP in Exhibit 93?
9	[2] 경우 - [10] 경영 경영 경영 (2) 경우 경영 경우 경영 경우 (2) 경영 경우 경영	9	MR. PAK: Objection; vague; calls for
1000	one was using PTP term in Cisco?	1 25	speculation; assumes facts not in evidence.
11	Q No.	11	THE WITNESS: It's not as normal a term as IP
12	I'm I'm just saying, the acronym PTP	Thousand a	or MAC. The the term is still I think even for
13	A Right.	7,000	people who are working on the Catalyst switches, it's
14	Q was in use before you began implementing	0.696	not a very well-known term.
15	PTP functionality into Cisco's industrial Ethernet	15	MR. WONG: Okay.
50000	Amend and the state of the stat	16	Q But certainly, the IEEE standard marked as
17	A Yes, I yeah, the term exist	-	Exhibit 93 defines the PTP acronym; correct?
18	Q Right.	18	A Yes.
19	A about the	19	Q And uses the PTP acronym
20	Q It it it was in the the document	20	A Yes.
21	here marked as Exhibit	21	Q to describe precision time protocol;
22	A Yes.	A CONTRACTOR	correct?
23	Q 93; correct?	23	A True.
24	A Yes.	24	Q And it uses that PTP acronym to describe the
25	Q And, in fact, on page 7 of Exhibit 93 Page 103	25	PTP functionality that you implemented in Cisco's Page 105
	rage 103	1	rage 103

100	industrial Ethernet devices; right?	1 Q And then subsection 3.1 says "Definitions."
2		2 Do you see that?
3	evidence; mischaracterizes the witness' prior	3 A Yes.
4	testimony.	4 Q Definition 3.1.4 in the IEEE PTP
5	THE WITNESS: In this spec, yes.	5 specification defines the term "clock."
6	MR. WONG: Q. Well, is PTP used in Cisco's	6 Do you see that?
7	industrial Ethernet device in a different way than	7 A Yes, uh-huh.
8	what PTP means in Exhibit 93?	8 Q What is the definition of clock in the IEEE
9	MR. PAK: Objection; vague.	9 standard?
10	MR. WONG: Let me rephrase the question.	10 A It's no participating in the precision time
11	Q In the five commands that you're associated	11 protocol, PTP, that is capable of providing a
12	with in Exhibit 92	12 measurement of the passage of time since a defined
13	A Right.	13 epoch.
14	Q all of them use the acronym PTP; correct?	14 Q And you have read these definitions before
15	A Yes.	15 you began developing the PTP functionality in Cisco's
16	Q That PTP refers to the same PTP that is shown	16 industrial Ethernet devices; right?
17	on page 8 of Exhibit 93; right?	17 A Yes.
18	MR. PAK: Objection; vague.	18 Q So you were familiar with these IEEE defined
19	THE WITNESS: I think when I chose the	19 terms before you began working on the PTP
	command, yes, I used PTP to mean the same as precision	20 functionality; correct?
	time protocol	21 A Yes.
22	MR, WONG: Right.	22 Q And you knew they were in the IEEE standard;
23	THE WITNESS: as in the spec.	23 correct?
24	MR. WONG: Q. As in the spec and, in fact,	24 A Yes.
	as in as on page 8 of Exhibit 93, correct, which	25 Q Okay. Now, the definition of clock that you
40	Page 106	Page 108
14		
	lists the PTP which lists PTP as an acronym;	1 read, is that your understanding of what a clock is in
	correct?	2 the context of PTP?
3		A A A P P I I I I I I I I I I I I I I I
440	MR. PAK: Objection; vague.	3 MR. PAK: Objection; vague.
4	THE WITNESS: I would say the meanings are	THE WITNESS: So, in the context of PTP
4 5	THE WITNESS: I would say the meanings are the same, that they mean precision time protocol.	THE WITNESS: So, in the context of PTP standard or spec, yes, a clock means this.
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: I would say the meanings are the same, that they mean precision time protocol.  MR. WONG: Q. Well, the the words are the same, too; correct?  PTP in the command is the same three letters that appear on page 8 of Exhibit 93; correct?  A It's the same acronym.  Q And they're referring to the same protocol; correct?  A Yes.  Q Now, if you'll turn to page 4 of Exhibit 93.  A (Witness complies.) Okay.  Q You can take off the well  A This is  Q maybe you want to keep that together, actually.  A Right.  Q On page 4 of Exhibit 93, there is a large heading No. 3 entitled:	THE WITNESS: So, in the context of PTP standard or spec, yes, a clock means this.  MR. WONG: Q. A clock means what it says or page 4 of  A Yes. Q Exhibit 93?  A Right.  Q And you you you did not come up with the term clock in the context of PTP; correct?  A No.  A No.  A No.  Clock is just a defined term in the IEEE standard marked as Exhibit 93; correct?  A Yes.  Q Okay. If you'll look at page 6 of Exhibit 93.  A (Witness complies.) Right.  Term 3.1.23; do you see that?  It defines the term "parent clock" correct?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	THE WITNESS: I would say the meanings are the same, that they mean precision time protocol.  MR. WONG: Q. Well, the the words are the same, too; correct?  PTP in the command is the same three letters that appear on page 8 of Exhibit 93; correct?  A It's the same acronym.  Q And they're referring to the same protocol; correct?  A Yes.  Q Now, if you'll turn to page 4 of Exhibit 93.  A (Witness complies.) Okay.  Q You can take off the well  A This is  Q maybe you want to keep that together, actually.  A Right.  Q On page 4 of Exhibit 93, there is a large heading No. 3 entitled:  "Definitions, acronyms, and abbreviations."	THE WITNESS: So, in the context of PTP standard or spec, yes, a clock means this.  MR. WONG: Q. A clock means what it says or page 4 of  A Yes. Q Exhibit 93?  A Right.  Q And you you you did not come up with the term clock in the context of PTP; correct?  A No. Q All right.  Clock is just a defined term in the IEEE standard marked as Exhibit 93; correct?  A Yes. Q Okay. If you'll look at page 6 of Exhibit 93.  A (Witness complies.) Right.  C Term 3.1.23; do you see that? It defines the term "parent clock" correct?  A Yes.
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1 synchronized.	1 Do you see that?
2 Q And is that your understanding of what a	2 A I haven't found that sentence.
3 parent clock is in the context of PTP?	Oh, yeah, found it.
4 A It is.	4 Q Okay. That sentence in the IEEE standard
5 Q And you get that understanding from the IEEE	5 uses the term parents; do you see that?
6 standard marked as Exhibit 93; correct?	6 A Yes.
7 A Yes.	7 Q Is it your understanding that that that
8 Q All right.	8 parents term refers to a parent clock?
9 You don't disagree with that definition;	9 MR. PAK: If you need to take some time to
10 correct?	10 look at the document more closely, you can do that.
11 A No.	11 THE WITNESS: Yes.
12 Q And you don't disagree with the definition of	MR. PAK: Okay.
13 clock in the IEEE PTP standard; right?	13 THE WITNESS: I think it it's referring to
14 A No, I don't.	14 the parent clock.
15 Q Okay. Now, the term parent also refers to	MR. WONG: Right.
16 the parent clock in a PTP context; correct?	16 Q There's no ambiguity in the context of the
17 A The term parent	17 IEEE standard that parent refers to parent clock;
MR. PAK: Objection; vague.	18 right?
19 THE WITNESS: in this document	19 A Yes. Here, it means yeah, it does mean
20 MR. WONG: Yes.	20 parent clock.
21 THE WITNESS: whenever yeah, a parent	21 Q Okay. So, in the context of the PTP
22 clock is used, it means the definition here.	22 standard, referring to the parent of a clock is
23 MR. WONG: Sure.	23 referring to the defined term parent clock that we
24 THE WITNESS: Is that the question?	24 discussed a few minutes ago; correct?
25 MR. WONG: Sure.	25 A Yes.
Page 110	Page 112
T 0 TC 114	
1 Q If you'd turn to page 53 of Exhibit 93. Let	1 Q Okay. Now, if you look on that same page,
2 me know when you're there.	2 underneath the heading "PTP Device Attributes," you
<ul><li>2 me know when you're there.</li><li>3 A 53?</li></ul>	2 underneath the heading "PTP Device Attributes," you 3 see the term "Priority 1"?
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	A DESCRIPTION OF THE PROPERTY	
17.00	applicable PTP protocol" I'm sorry "PTP	1 Q So, it is a it is a requirement to comply
500	profile."	2 with the standard for there to be a value of
3		3 priority 1 that is configurable as described here on
4		4 page 53; correct?
5	Short in a short of the additional flow of the property of the property and the state of the sta	5 A Yes.
6	• •	6 MR. PAK: Same and again same objection;
7	The state of the s	7 calls for expert testimony.
8		8 MR. WONG: Q. If you'd turn I'm sorry.
9		9 And and do you have any disagreements with
10	standard; correct?	10 the description of priority 1 here on page 53?
11	MR. PAK: Same objection; calls for expert	11 A No.
	testimony.	12 Q Okay. If you'd turn to the next page in
13	)	13 Exhibit 93.
	question.	14 A (Witness complies.)
15		15 Q At the top, it has another attribute,
16		16 "priority 2."
17		Do you see that?
	the IEEE standard; correct?	18 A Yes.
19	The state of the s	19 Q And the definition of priority 2 also has a
20	testimony.	20 sentence that says:
21	MR. WONG: Q. And it may help	"The value of priority 2 shall be
22		22 configurable to any value in the range 0 to 255,
	recommending that priority 1 is an attribute, that	23 unless restricted by limits established by an
24	this is a configurable value.	24 applicable PTP profile."
25	Q If you'd turn to page 9 of the same document,	Do you see that?
	Page 114	Page 116
	Exhibit 93.	1 A Uh-huh, yes.
2	A (Witness complies.) Okay.	2 Q So the value of priority 2 strike that.
3	Q And you see right in the middle of the page,	3 So it's a requirement to comply with the PTP
	it says "word usage"; correct?	4 standard for the value of priority 2 to be
5	A Uh-huh, I see.	5 configurable as described here on page 54; correct?
6	Q And it defines "shall" in 4.2.1.	6 MR. PAK: Same objection; calls for expert
7	Do you see that?	7 testimony.
8	A Yes.	8 THE WITNESS: Yes, it's a parameter.
9	Q And this is and you you read the entire	9 MR. WONG: Right.
	standard before you implemented any of the	10 THE WITNESS: Right.
	functionality with Cisco's products; right?	11 Q And that's your understanding, based upon the
12	A Yes.	12 standard's own definition of what "shall" means within
13	Q The definition of "shall" well, why don't	13 the document; correct?
14	you please read the definition of "shall."	14 A Yes.
15	A "The word 'shall,' which is equivalent to 'is	15 Q Okay. And when you implemented the PTP
16	required to,' is used to indicate mandatory	16 functionality in Cisco's devices, was it your
17	requirements strictly to be followed in order to	17 intention to comply with the standard with the IEEE
18	conform to the standard and from which no deviation is	18 standard marked as Exhibit 93?
	permitted."	MR. PAK: Objection; vague.
20	Q Okay. And you understood that when you read	THE WITNESS: Again, there were certain
	the standard; correct?	21 multiple aspects of it; right?
21		MR. WONG: Q. But, with respect to the two
21 22	A Yes.	
21 22 23	Q Okay. If you'd turn back to page 53 that we	23 device attributes that we just discussed, was it your
21 22 23 24	Q Okay. If you'd turn back to page 53 that we were just on.	24 intention to comply with the IEEE standard?
21 22 23	Q Okay. If you'd turn back to page 53 that we	

1	THE WITNESS: I think we intended to make	1	"Syna (multicast) massaga transmission
1		2	"Sync (multicast) message transmission interval."
3	So, for that part, yes, the compliance is that we	3	Do you see that?
4	shall make these as configurable values.	4	A Yes.
5	MR. WONG: Q. As required by the IEEE	5	Q Now, the sentence below that says:
6	standard marked as	6	"The port DS.log sync interval shall specify
7		-	the mean time interval between successive sync
8		8	messages, i.e., the sync interval, when transmitted as
9		9	
10	Q Is it possible to have vendor	10	Do you see that?
11	interoperability for PTP if you don't comply with the	11	A Yes.
12		12	Q Did I read that correctly?
13	MR. PAK: Objection; calls for expert	13	A Yes.
	A second of the	14	Q So the and that sentence, by the way, uses
15	MR. WONG: Q. In your view?		the word "shall" again; correct?
16	MR. PAK: Same objections.	16	A Yes.
17	THE WITNESS: In my view, the basic external	17	Q That indicates that this is a required a
	behaviors needs to be consistent to be interoperable.	9350	requirement of the PTP standard; correct?
19	MR. WONG: Q. And are the device attributes	19	MR. PAK: Objection; calls for expert
	that we just discussed, priority 1 and priority 2, are	110000	testimony.
21	those part of those external behaviors that need to be	21	THE WITNESS: I my understanding is this
22	consistent in order to support interoperability?		is to be supported to implement a PTP protocol.
23	MR. PAK: Same objection; vague.	23	MR. WONG: Q. And that understanding is
24	THE WITNESS: I think the priority value		based upon the definition of "shall" provided on
	being configurable, changeable by users is as you		page 9 of the standard; correct?
23	Page 118	23	Page 120
	2007 - 200 No. (ACO) - AC ACC ACC	- 2	0 000 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	said, as required it's required to be	1	A Yes, uh-huh.
	interoperable	2	Q That definition of "shall" says that no
3	MR. WONG: Okay.	7.3	deviation is permitted; correct?
4	THE WITNESS: at the PlugFest.	4	If you need to look at page 9, you can
5	MR. WONG: Q. So, to comply with the PTP	0.00	confirm that.
	standard, there have to be configurable device	6	A Right. No deviation of the behavior, I
	attributes called priority 1 and priority 2 as	1704	guess.
	described on pages 53 and 54 of Exhibit 93?	8	Q Okay.
9	MR. PAK: Objection; calls for expert	9	A Right.
	testimony. Objection; vague.	10	Q Is that your understanding?
11	THE WITNESS: My understanding is these two	11	A Right.
	parameters, which needs to be configurable.	12	Q So turning so you're still on page 62.
13	MR. WONG: Okay.		The IEEE standard uses the term "sync interval" to
14	Q To comply with the PTP standard?		describe the mean time interval between successive
15	A Yes.		sync messages; correct?
16	Q Okay. If you'd turn to page 62 of that same	16	A Sync interval as specified in the text here?
	document, Exhibit 93. Let me know when you're there.	17	Q Yes.
18	A (Witness complies.) Yes, I'm on page 63.	18	A Right. Yes.
19	Q 62. I'm sorry.	19	Q So, do you agree that the IEEE standard
20	A 62. (Witness complies.) Okay.		marked as Exhibit 93 on page 62 defines the sync
21	Q Okay. About two-thirds down on that page 62,		interval as the mean time interval between successive
	there is a subheading 7.7.2.3.		sync messages when transmitted as multicast messages?
23	Do you see that?	23	A Yes.
24	A Yes.	24	Q Okay. Do you have any disagreements with
25	Q And the text next to that is: Page 119	25	that definition?
	Tuge 117		1450 121

	CONTIDENTIAL FORSCANT	10	THE TROTECTIVE ORDER
1	correct?	1	hierarchy existed before you started adding PTP
2	A Yes.	2	commands to the software?
3	Q And if you'll look briefly at Exhibit 96.	3	A Yes.
4	Let me know when you're there.	4	Q And you were aware of that?
5	A Yes.	5	A I'm yeah, I was aware of that.
6	Q Under "interface level config commands,"	6	Q Right.
7	listed there is "PTP sync-interval" with a hyphen.	7	
8	Do you see that?	8	
9	A PTP sync-interval, yes.	9	existed in Cisco software?
10	Q With a hyphen	10	MR. PAK: Objection; vague.
11	A With a hyphen.	11	THE WITNESS: I think I was thinking it would
12	Q between sync and interval?	12	be good to have that part for these CLI commands.
13	A Right.	13	MR. WONG: Okay. Okay.
14	Q Did you remove the hyphen based upon	14	I think it's a good time to take a break.
15	Mr. Woodman's directive?	15	THE VIDEOGRAPHER: It is 1:01.
16	A Yes, I believe that should be true.	16	We are going off the record.
17	Q And the purpose of removing the hyphen, as	17	Please don't forget your mics.
18	described in Mr. Woodman's e-mail marked as	18	(Lunch break taken at 1:01 p.m.)
19	Exhibit 97, was to take advantage of the auto complete	19	oOo
F 165,500,544	functionality; correct?	20	
21	MR. PAK: Objection; mischaracterizes the	21	
22	witness' testimony; incomplete.	22	
23	THE WITNESS: I would say both auto	23	
24	completion and hierarchy as	24	
25	MR. WONG: Q. What go ahead.	25	
0.00	Page 134		Page 136
1	A You go ahead first.	1	AFTERNOON SESSION
2	Q What in your mind, what is the difference	2	1:41 P.M.
3	between auto completion functionality and hierarchy?	3	
4	A Hierarchy let's say there is PTP sync	4	
5	interval, PTP sync limit. So, when we type PTP,	5	
6	space, sync, and then question mark, that gives you	6	THE VIDEOGRAPHER: We are back on the record.
7	the next level of that command, which is interval. So	7	It is 1:41.
8	this is the hierarchy part, which won't be there if	8	MR. WONG: Q. So, Ms. Liu, before the lunch
9	there is a hyphen. So, all of them would be under	9	break, we talked about the five commands that are
10	PTP, and you have all of the options.	10	associated with you in Exhibit 92.
11	Q Did you come up with the idea to have a	11	A Yes.
12	hierarchy for these PTP commands?	12	Q One of the commands is "PTP priority 1."
13	MR. PAK: Objection; vague.	13	A Yes.
14	THE WITNESS: Meaning can you rephrase	14	Q Do you see that?
15	that. Did I come up with the concept?	15	A Uh-huh.
16	MR. WONG: You just described the concept of	16	Q What is the function that the "PTP
17	a hierarchy.		priority 1" command performs?
18	Q Was that concept did that concept	18	A It configures the priority 1 parameter for
19	originate from you?	19	the PTP clock.
20	MR. PAK: Objection; vague.	20	Q Okay. And when you say "for the PTP clock,"
21	THE WITNESS: A lot of Cisco CLI commands	21	you mean PTP as defined by the IEEE standard; right?
22	has have hierarchies. That part I knew even before	22	A Yes.
23	I developed these commands.	23	Q You're not talking about a different PTP
24	MR. WONG: Okay.	24	that's separate from the IEEE standard; right?
25	Q So the organization of Cisco commands in a	25	A No.
	Page 135		Page 137
			ALBORRA COMMUNICATION CONTRACTOR AND TANK OF A CONTRACTOR OF THE C

1 Q Okay. And the PTP in the command "PTP	1 the priority 1 attribute in the IEEE standard marked
2 priority 1" refers to the IEEE standard; correct?	2 as Exhibit 93?
3 MR. PAK: Objection; vague.	3 MR. PAK: Objection; vague.
4 THE WITNESS: It refers to, yeah, PTP.	4 THE WITNESS: Yes. I think I chose it for
5 MR. WONG: Q. It refers to the IEEE PTP	5 the intention to mean the priority 1 attribute of the
6 standard that we marked as Exhibit 93; correct?	6 clock.
7 A Yes.	7 MR. WONG: Q. And is your answer the same
8 Q Okay. And the use of the word PTP in all	8 for the command "PTP priority 2"?
9 five of the commands that are associated with you in	9 Is the priority 2 command parameter does
10 Exhibit 92, they all come from the IEEE standard	10 that refer to the priority 2 attribute in the IEEE
11 marked as Exhibit 93; correct?	11 standard marked as Exhibit 93?
MR. PAK: Objection; vague; mischaracterizes	MR. PAK: Same objection.
13 the witness' testimony.	13 THE WITNESS: It's referring to the same
14 THE WITNESS: You mean the PTP	14 that attribute, yes.
15 MR. WONG: Q. Let me ask the question	MR. WONG: Q. That attribute in the IEEE
	16 standard?
Charles Communication Control of	17 A In the IEEE standard, yes.
17 Q Yes.	The state of the s
Let me ask a clean question.	18 Q Okay. And you knew about the priority 1 and
The use of the word PTP in all five of the	19 priority 2 attributes in the IEEE standard before you
20 commands that are associated with you in Exhibit 92	20 started adding the "PTP priority 1" and "PTP
21 A Right.	21 priority 2" commands to the iOS software; correct?
22 Q that word came from the PTP IEEE standard	A Yes, I read the spec.
23 that was marked as Exhibit 93; correct?	23 Q And you were aware of those two particular
MR. PAK: Same objections.	24 attributes before you started adding the "PTP
THE WITNESS: Yes, it means the same.	25 priority 1" and "PTP priority 2" commands to Cisco's
Page 138	Page 140
1 MR. WONG: Okay.	1 routing software; right?
1 MR. WONG: Okay. 2 O And you in describing the function	1 routing software; right? 2 A Yes.
2 Q And you in describing the function	2 A Yes.
<ul><li>Q And you in describing the function</li><li>3 performed by the "PTP priority I" command, you</li></ul>	2 A Yes. 3 Q How long did it take you to come up with the
<ul> <li>Q And you in describing the function</li> <li>3 performed by the "PTP priority I" command, you</li> <li>4 testified that it configures the priority I parameter</li> </ul>	2 A Yes. 3 Q How long did it take you to come up with the 4 "PTP priority 1" command?
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1	understanding?	1 command?
2	A Yes.	2 MR. WONG: Q. When you
3	There so, when the CLI command is	3 A When I when I chose to use priority 1;
959	received, something needs to happen based on what has	4 right?
	been configured as being specified as the parameter.	5 Q Yes, that's what I'm asking.
5000	So that's the interface I was referring to, that I	6 A Yes. When I chose the word, I meant to
7	hook up to the back-end behavior of the clock.	7 configure this attribute for the clock. That was
8	Q And the back-end behavior for each command	8 true.
9	that you are associated with in Exhibit 92, did you	9 Q And this attribute for the clock, you're
10	write that source code?	10 referring to the priority 1 attribute that's defined
11	A I did write the source code.	11 in the IEEE standard; right?
12	Q Did you have anyone else's help in writing	12 A Yes.
13	the source code for those five commands associated	13 Q And your answer is the same for the
14	with you in Exhibit 92?	14 priority 2 attribute defined in the IEEE standard,
15	A No. I wrote all of them.	15 correct, with respect to the PTP priority 2 command?
16	Q The "PTP sync interval" command	16 A Yes.
17	A Yes.	17 Q And you chose the words sync interval because
18	Q Well, actually, just for clarity, what	18 the IEEE standard marked as Exhibit 93 described
19	function does the "PTP priority 2" command perform?	19 strike that.
20	A It configures another parameter which helps	You chose the words sync interval because the
21	to determine the the clock.	21 IEEE standard marked as Exhibit 93 also used the term
22	Q And that other parameter you're talking about	22 sync interval; correct?
23	is the priority 2 attribute that is defined by the	23 MR. PAK: Objection; vague.
5000	IEEE standard marked as Exhibit 93; correct?	24 THE WITNESS: When you say that, it makes me
25	A Yes.	25 feel that you it's a direct translate from the spec
(58.5)	Page 146	Page 148
,	O Okay What function does the "PTP same	1 to the command.
1	Q Okay. What function does the "PTP sync interval" command perform?	
3	A It configures how often the clock syncs with	Is that what you mean  MR. WONG: No. no. I'm
1.5		
4	the master.	THE WITNESS: when you ask the question?
5	Q And do you recall earlier we were looking at	5 MR, WONG: No, no.
6	the IEEE standard marked Exhibit 93 and a term called	6 Q My question is simply: When you you
7	sync interval in there?	7 testified that the one second.
8	A Right.	8 Can you tell me again what the function is
9	Q Is the sync interval, that the "PTP sync	9 that the "PTP sync interval" performs.
	interval" command refers to, the same sync interval	10 A It configures or determines how often the
	that we discussed in Exhibit 93?	11 clock syncs with the master clock.
12	MR. PAK: Objection; vague.	12 Q And that functionality is described in the
13	THE WITNESS: I think that was this	13 IEEE standard; correct?
14	command was used was defined to be used to	14 A Yes.
15	configure that part of the clock.	15 Q And the IEEE standard uses the term sync
16	MR. WONG: Right.	16 interval to describe what you just described as the
17	Q And by "that part of the clock," you mean the	17 function of the "PTP sync interval" command; right?
18	sync interval attribute defined by the IEEE PTP	MR. PAK: Objection; vague.
19	standard; right?	THE WITNESS: It's the same meaning.
20	A Yes.	20 MR. WONG: Okay.
21	Q Now, you chose the term priority 1 because	21 Q So you chose the words sync interval for the
22	priority 1 is an attribute that's in the IEEE	22 "PTP sync interval" command because the IEEE standard
	standard; right?	23 used the same term to describe what the command does;
24	MR. PAK: Objection; vague.	24 right?
25	THE WITNESS: You mean when I wrote the Page 147	MR. PAK: Objection; vague. Page 149

1 THE WITNESS: I chose it based on my	1 standard attributes; right?
2 understanding of the spec. And so it's it's just a	2 MR. PAK: Objection; assumes facts not in
3 preference how how to express this how how to	3 evidence; mischaracterizes the witness' testimony.
4 express this parameter in the for the user	4 THE WITNESS: I think I chose it based on my
5 interface. I wouldn't say it's directly, because it's	5 understanding of the spec. And I don't remember using
6 in the spec. That's why I use it.	6 it because it's in the spec.
7 MR. WONG: Q. Well, you wouldn't call so	7 MR. WONG: Q. But you had reviewed the spec
8 the IEEE has a priority 1 attribute; right?	8 entirely before you started adding these five commands
9 A Right.	9 associated with you in Exhibit 92; correct?
10 Q And it's a requirement of the PTP standard;	10 A I did review the spec, yes.
11 right?	11 Q So you so you were aware that these terms
12 A Yes.	12 were defined in the IEEE specification marked as
13 Q Would you call the priority I standard	13 Exhibit 93 before you added the five commands
14 priority 2 in a command if the command sets the	14 associated with you in Exhibit 92; right?
15 priority 1 attribute?	
MR. PAK: Objection; vague.	16 THE WITNESS: When you say "five commands,"
17 THE WITNESS: No. I would set it as	17 that would include the show command which are
18 priority 1.	18 different, right, than these configuration commands?
MR. WONG: Right.	19 MR. WONG: Sure.
THE WITNESS: Not priority 2.	20 Q Why don't we just limit the question then to
MR. WONG: Q. And that's because you want	21 the three commands that we just were talking about:
22 the command to match the same term that's used in the	22 "PTP priority 1"
23 standard; right?	23 A Right.
MR. PAK: Objection; mischaracterizes the	24 Q "PTP priority 2," and "PTP sync interval."
25 witness' testimony.	25 A Right.
Page 150	Page 152
1 MR. WONG: Let me rephrase the question.	1 Q You were aware that the terms priority 1,
2 Q For a command "PTP priority 1" that sets an	2 priority 2, sync interval, and PTP were defined in the
3 attribute that's called priority 1 in the spec, you	3 IEEE specification marked as Exhibit 93 before you
4 should use the same word in the command; correct?	4 added those three commands to Cisco's routing
5 MP PAK: Objection: accumes facts not in	5 coffwara: corract?
5 MR. PAK: Objection; assumes facts not in	5 software; correct?
6 evidence.	6 A I'm aware of those terms being defined in the
6 evidence. 7 THE WITNESS: No, I don't think that part was	6 A I'm aware of those terms being defined in the 7 1588 standard.
6 evidence. 7 THE WITNESS: No, I don't think that part was 8 true.	<ul> <li>6 A I'm aware of those terms being defined in the</li> <li>7 1588 standard.</li> <li>8 Q Okay. Before you added those three commands</li> </ul>
6 evidence. 7 THE WITNESS: No, I don't think that part was 8 true. 9 For example, you could use clock priority I	<ul> <li>6 A I'm aware of those terms being defined in the</li> <li>7 1588 standard.</li> <li>8 Q Okay. Before you added those three commands</li> <li>9 to the Cisco software; correct?</li> </ul>
6 evidence. 7 THE WITNESS: No, I don't think that part was 8 true. 9 For example, you could use clock priority 1 10 or clock priority 2; right? There there is no	<ul> <li>6 A I'm aware of those terms being defined in the</li> <li>7 1588 standard.</li> <li>8 Q Okay. Before you added those three commands</li> <li>9 to the Cisco software; correct?</li> <li>10 A Yes.</li> </ul>
6 evidence. 7 THE WITNESS: No, I don't think that part was 8 true. 9 For example, you could use clock priority 1 10 or clock priority 2; right? There there is no 11 direct association of what I use in the command line	<ul> <li>6 A I'm aware of those terms being defined in the</li> <li>7 1588 standard.</li> <li>8 Q Okay. Before you added those three commands</li> <li>9 to the Cisco software; correct?</li> <li>10 A Yes.</li> <li>11 Q Okay. Now, "show PTP clock" is another</li> </ul>
6 evidence. 7 THE WITNESS: No, I don't think that part was 8 true. 9 For example, you could use clock priority I 10 or clock priority 2; right? There there is no 11 direct association of what I use in the command line 12 CLI that it has to match this spec. That's the	<ul> <li>A I'm aware of those terms being defined in the</li> <li>1588 standard.</li> <li>Q Okay. Before you added those three commands</li> <li>to the Cisco software; correct?</li> <li>A Yes.</li> <li>Q Okay. Now, "show PTP clock" is another</li> <li>command that you're associated with; correct?</li> </ul>
6 evidence. 7 THE WITNESS: No, I don't think that part was 8 true. 9 For example, you could use clock priority I 10 or clock priority 2; right? There there is no 11 direct association of what I use in the command line 12 CLI that it has to match this spec. That's the 13 that they are not equal,	<ul> <li>A I'm aware of those terms being defined in the</li> <li>1588 standard.</li> <li>Q Okay. Before you added those three commands</li> <li>to the Cisco software; correct?</li> <li>A Yes.</li> <li>Q Okay. Now, "show PTP clock" is another</li> <li>command that you're associated with; correct?</li> <li>A Yes.</li> </ul>
6 evidence. 7 THE WITNESS: No, I don't think that part was 8 true. 9 For example, you could use clock priority I 10 or clock priority 2; right? There there is no 11 direct association of what I use in the command line 12 CLI that it has to match this spec. That's the 13 that they are not equal. 14 MR. WONG: Okay.	6 A I'm aware of those terms being defined in the 7 1588 standard. 8 Q Okay. Before you added those three commands 9 to the Cisco software; correct? 10 A Yes. 11 Q Okay. Now, "show PTP clock" is another 12 command that you're associated with; correct? 13 A Yes. 14 Q What's the function performed by the "show
6 evidence. 7 THE WITNESS: No, I don't think that part was 8 true. 9 For example, you could use clock priority I 10 or clock priority 2; right? There there is no 11 direct association of what I use in the command line 12 CLI that it has to match this spec. That's the 13 that they are not equal. 14 MR. WONG: Okay. 15 Q Well, priority I has a particular meaning in	6 A I'm aware of those terms being defined in the 7 1588 standard. 8 Q Okay. Before you added those three commands 9 to the Cisco software; correct? 10 A Yes. 11 Q Okay. Now, "show PTP clock" is another 12 command that you're associated with; correct? 13 A Yes. 14 Q What's the function performed by the "show 15 PTP clock" command?
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6 evidence. 7 THE WITNESS: No, I don't think that part was 8 true. 9 For example, you could use clock priority I 10 or clock priority 2; right? There there is no 11 direct association of what I use in the command line 12 CLI that it has to match this spec. That's the 13 that they are not equal. 14 MR. WONG: Okay. 15 Q Well, priority I has a particular meaning in 16 the PTP context; correct? 17 A Yes. 18 Q And the "PTP priority I" command performs the 19 function in the PTP context; correct? 20 MR. PAK: Objection; vague; incomplete 21 hypothetical. 22 THE WITNESS: The yes, priority attribute 23 is an important part of a PTP clock.	6 A I'm aware of those terms being defined in the 7 1588 standard. 8 Q Okay. Before you added those three commands 9 to the Cisco software; correct? 10 A Yes. 11 Q Okay. Now, "show PTP clock" is another 12 command that you're associated with; correct? 13 A Yes. 14 Q What's the function performed by the "show 15 PTP clock" command? 16 A It shows the state and status of the clock. 17 And I don't recall the entire output from the command, 18 but I think that's probably summarize majority of the 19 output. 20 Q Okay. And as we discussed earlier in today's 21 deposition, the PTP IEEE specification defines the 22 term clock; correct? 23 A It defined the term clock, yes.

1 defined in the PTP standard; correct? 1 standards? MR. PAK: Objection; vague. 3 THE WITNESS: Well, the command shows the PTP 3 Q And you recall discussing the definition of 4 clock status. 4 parent clock in the standards earlier in this MR. WONG: Q. And when you refer to "the PTP 5 deposition; correct? 6 clock" in that response you just gave, you're 6 A Yes. 7 referring to the clock that is defined in the PTP 7 Q And another shorthand used by the IEEE 8 standard; correct? standard for parent clock is simply parent; correct? A Yes, it means the clock. MR. PAK: Objection; vague. 10 Q Now, the -- the word "show" in that command, 10 THE WITNESS: Can you refer me to that page. 11 were there other commands in iOS that used the word 11 MR. WONG: Sure, sure, absolutely. 12 "show" before you added this "show PTP clock" command 12 Q I think it's on page 53 of Exhibit 93. It's 13 to the software? 13 in that sentence maybe two-thirds of the way down on A Yes. 14 14 page 53 that starts with: 15 Q Okay. You were familiar that other commands 15 "Ordinary and boundary clocks may keep 16 used the first word of "show" to display information 16 statistics." 17 before you added the "show PTP clock" command; 17 A Uh-huh. 18 correct? 18 "Using the following attribute." 19 19 A Yes. Okay. 20 Q Okay. So you -- you simply followed what 20 Q So you would agree that, in the IEEE 21 other commands were doing when you chose the word 21 standard, it uses the term parent as shorthand for 22 "show" in "show PTP clock"; is that right? 22 parent clock? 23 MR. PAK: Objection; assumes facts not in 23 A Yes. 24 evidence; mischaracterizes the witness' testimony. 24 Q Okay. Do you know if commands that use the 25 MR. WONG: Q. If anything that I'm saying -25 word "show" were used before they were used in Cisco's Page 154 Page 156 1 A "Show" is a --1 software? 2 Q Sorry. 2 MR. PAK: Objection; calls for expert A -- big category of commands. Like, there is 3 3 testimony. 4 debug. There is config. There is show. So show is 4 THE WITNESS: I'm not aware of that. 5 5 one big category of commands. MR. WONG: Okay. Q And there was a big -- and that category of 6 Q I'm just asking whether you personally know. 7 commands, the show commands, existed before you added 7 If you don't, then --8 the "show PTP clock" command to the software; correct? 8 A No, I don't. 9 A Yes. Q -- that's fine. 10 MR. WONG: What's the next exhibit number? 10 Q And you were just building upon that category 11 of commands when you used the word "show" in "show PT₱ 11 THE REPORTER: 98. 12 clock"; correct? 12 MR. WONG: Okay. MR. PAK: Objection; mischaracterizes the 13 13 (Document marked Exhibit 98 14 witness' testimony. 14 for identification.) 15 THE WITNESS: Yes, I think that -- that was 15 MR. WONG: The court reporter has marked as 16 the intention. 16 Exhibit 98 a document bearing control 17 MR. WONG: Q. And is the same 17 Nos. CSI-CLI-00194055 to '194800. 18 explanation -- does the same explanation apply to 18 Q Ms. Liu, do you recognize this document? 19 "show PTP parent" for the show aspect of that command? 19 A I don't recognize this document. 20 A Yes, for the show aspect of the command, yes. 20 Q Okay. Have you seen Cisco command reference 21 Q Okay. What function does the "show PTP 21 guides before? 22 parent" command perform? 22 A In general terms, right, not particular to 23 A It shows the status of the parent clock. 23 700 series? 24 Q When you say "the parent clock," are you 24 Q That's -- that's correct, in general terms. 25 referring to the parent clock as defined in the PTP 25 A Yes, I have.

Page 157

Page 155

1		
1	JURAT	
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	I, TONG LIU, do hereby certify under penalty	
4	of perjury, that I have read the foregoing	
5	transcript of my deposition in the matter of	
6	Cisco Systems, Inc., vs. Arista Networks, Inc.,	
7	taken on January 15, 2016; that I have made such	
8	corrections as appear noted herein in ink,	
9	initialed by me; that my testimony as contained	
10	herein, as corrected, is true and correct.	
11	DATED this day of,	
12	2015, at	
13		
14	SIGNATURE OF WITNESS	
15		
16	NOTARIZATION (If Required)	
	State of	
18	County of	
1	Subscribed and sworn to (or affirmed) before me on	
	this, 20,	
	by, proved to me on the	
I	basis of satisfactory evidence to be the person who	
1	appeared before me.	
1	Signature: (Seal)	
25	Page 214	
	Fage 214	
1	CERTIFICATE OF REPORTER	
2	I, ANDREA M. IGNACIO, hereby certify that the	
2 3	I, ANDREA M. IGNACIO, hereby certify that the witness in the foregoing deposition was by me duly	
2 3 4	I, ANDREA M. IGNACIO, hereby certify that the witness in the foregoing deposition was by me duly sworn to tell the truth, the whole truth, and nothing	
2 3 4 5	I, ANDREA M. IGNACIO, hereby certify that the witness in the foregoing deposition was by me duly sworn to tell the truth, the whole truth, and nothing but the truth in the within-entitled cause;	
2 3 4 5 6	I, ANDREA M. IGNACIO, hereby certify that the witness in the foregoing deposition was by me duly sworn to tell the truth, the whole truth, and nothing but the truth in the within-entitled cause;  That said deposition was taken in shorthand	
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1
                 UNITED STATES DISTRICT COURT
 2
                NORTHERN DISTRICT OF CALIFORNIA
 3
                        SAN JOSE DIVISION
 4
      CISCO SYSTEMS, INC.,
 5
                                 )
                   Plaintiff,
 6
                                 ) Case No.
 7
                                 ) 5:14-cv-05344-BLF (PSG)
              vs.
 8
       ARISTA NETWORKS, INC.,
                   Defendant.
 9
10
11
12
            HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY
13
14
15
            VIDEOTAPED DEPOSITION OF KIRK LOUGHEED
16
                      Palo Alto, California
17
                    Friday, November 20, 2015
                            Volume I
18
19
20
21
22
     Reported by:
     CARLA SOARES
     CSR No. 5908
23
24
     Job No. 2187110
25
     Pages 1 - 189
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UNITED STATES DISTRICT COURT
                                                            1 APPEARANCES (Continued):
 2
        NORTHERN DISTRICT OF CALIFORNIA
 3
            SAN JOSE DIVISION
                                                            3 For the Defendant:
 4
                                                                     KEKER & VAN NEST LLP
 5 CISCO SYSTEMS, INC., )
                                                            5
                                                                     BY: BRIAN L. FERRALL, Attorney at Law
          Plaintiff, )
 6
                                                            6
                                                                     BY: RYAN WONG, Attorney at Law
                ) Case No.
                                                            7
                                                                     633 Battery Street
                 ) 5:14-cv-05344-BLF (PSG)
                                                            8
                                                                     San Francisco, California 94111
                                                            9
                                                                     415.391.5400
 8 ARISTA NETWORKS, INC., )
                                                           10
                                                                    bferrall@kvn.com
                )
 9
          Defendant. )
                                                           11
                                                                     rwong@kvn.com
                                                           12
10
                                                           13 ALSO PRESENT: Sean Grant, Video Operator
11
                                                           14
                                                                            --000--
12
                                                           15
13
14
                                                           16
15
                                                           17
16
        VIDEOTAPED DEPOSITION OF KIRK LOUGHEED,
                                                           18
17 Volume I, taken on behalf of Defendant, at
                                                          19
18 650 Page Mill Road, Palo Alto, California, beginning
                                                          20
19 at 9:19 a.m., and ending at 6:15 p.m., on Friday,
20 November 20, 2015, before CARLA SOARES, Certified
                                                          21
21 Shorthand Reporter No. 5908.
                                                          22
22
                                                          23
23
                                                          24
24
                                                          25
25
                                                   Page 2
                                                                                                             Page 4
                                                                           INDEX
 1 APPEARANCES:
                                                           1
                                                           2 WITNESS
 2
                                                           3 KIRK LOUGHEED
 3 For the Plaintiff and the Witness:
                                                                                                EXAMINATION
                                                              Volume I
        QUINN EMANUEL URQUHART & SULLIVAN, LLP
                                                           4
 5
        BY: JOHN (JAY) NEUKOM, Attorney at Law
                                                           5
                                                                     BY MR. FERRALL
                                                                                                    10
 6
        50 California Street, 22nd Floor
                                                           6
 7
        San Francisco, California 94111
                                                                          EXHIBITS
 8
        415.875.6341
                                                           8 NUMBER
                                                                               DESCRIPTION
                                                                                                       PAGE
 9
        johnneukom@quinnemanuel.com
                                                           9 Exhibit 29 Document headed "Internet
                                                                                                        73
10
            and
                                                          10
                                                                     Protocol,"
11
        KIRKLAND & ELLIS LLP
                                                          11
                                                                     Bates ARISTANDCA0031553 - 1601
12
        BY: JOSHUA L. SIMMONS, Attorney at Law
                                                          12
13
        601 Lexington Avenue
                                                          13 Exhibit 30 Document headed "DoD Internet
                                                                                                           73
14
        New York, New York 10022
                                                          14
                                                                     Host Table Specification"
15
        212-446-4989
                                                          15
16
        joshua.simmons@kirkland.com
                                                          16 Exhibit 31 Document headed "An Ethernet
                                                                                                          73
17
                                                          17
                                                                     Address Resolution Protocol or
18
                                                          18
                                                                     Converting Network Protocol
19
                                                          19
                                                                     Addresses to 48.bit Ethernet
20
                                                                     Address for Transmission on
                                                          20
21
                                                          21
                                                                     Ethernet Hardware,"
22
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                                                                     Bates ARISTANDCA0003130 - 1639
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1 EXHIBITS 2 NUMBER DESCRIPTION PAGE 3 Exhibit 32 Document headed "Address 85 3 Exhibit 43 Document entitled "DECbrout 4 Resolution Protocol (ARP) module 5 for the Yeager gateway" 5 1683.000344 6 7 Exhibit 33 Email string, top email to Kirk 89 7000 8 Lougheed and Paula Labloner from 9 Mike Sanchez, dated 11-17-14, 9 9 Mike Sanchez, dated 11-17-14, 10 Bates CSI-CLI-01326834 - 6837 10 11 Exhibit 34 Email string, top email to Phillip 93 12 13 Remaker from Kirk Lougheed, dated 14 3-30-10, Bates CSI-CLI-01317865 - 15 7866 15 15 7866 16 17 Exhibit 35 Email string, top email to Joe 100 17 18 Hielscher from Kirk Lougheed, 18 Hielscher from Kirk Lougheed, 19 dated 7-23-08, 19 dated 7-23-08, 20 Bates CSI-CLI-01134849 - 4850 20 21 21 22 Exhibit 36 Document entitled "Stanford 101 22 23 Ethertip/Gateway User and 24 Configuration Guide," 24	
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19       dated 7-23-08,       19         20       Bates CSI-CLI-01134849 - 4850       20         21       21         22 Exhibit 36 Document entitled "Stanford 101 22       22         23 Ethertip/Gateway User and 24 Configuration Guide,"       23	
21 22 Exhibit 36 Document entitled "Stanford 101 22 23 Ethertip/Gateway User and 23 24 Configuration Guide," 21 22 23 24	
22 Exhibit 36 Document entitled "Stanford 101 22 23 Ethertip/Gateway User and 23 24 Configuration Guide," 22 24	
23 Ethertip/Gateway User and 23 24 Configuration Guide," 23	
24 Configuration Guide," 24	
,	
25 Bates CSI-CLI-01315523 - 5568 25	
Page 6	Page 8
1 EXHIBITS 1 Palo Alto, California 08:37:04	
2 NUMBER DESCRIPTION PAGE 2 Friday, November 20, 2015	
3 Exhibit 37 Document entitled "cisco Systems 106 3 9:19 a.m.	
4 AGS User Manual," 4	
5 Bates CSI-CLI-00358166 - 8223 5 PROCEEDINGS 08:37:10	)
6 THE VIDEO OPERATOR: Good morning. We	re
7 Exhibit 38 Email string, top email to Phillip 122 7 on the record. The time is 9:19 a.m., and the date	
8 Remaker from Kirk Lougheed, dated 8 is November 20th, 2015. This begins the videotaped	
9 12-11-08, Bates CSI-ANI-00043306 - 9 deposition of Kirk Lougheed.	
10 2206 000001	9:19:25
11 reporter, Carla Soares. We're here from Veritext	
12 Exhibit 39 Document entitled "Cisco's 152 12 Legal Solutions at the request of counsel for	
Response to Arista's Interrogatory 13 defendant.	
No. 16 Amended Exhibit D1 (IOS 14 This deposition is being held at Wilson	
16 D 1 110)	9:19:34
16 this case is Cisco Systems, Inc., versus Arista	
17 Exhibit 40 Email to Craig Fox from Kirk 160 17 Networks, Inc., Case No. 5:14-CV-05344-BLF.	
Lougheed, dated 3-6-96, 18 Please note that audio- and	:
Bates CSI-CLI-00746398 19 video-recording will take place unless all parties	
20 have agreed to go off the record. Microphones are	09:19:54
21 Exhibit 41 Document described as source 162 21 sensitive and may pick up whispers, private	
22 conversations, or cellular interference.	
23 At this time, will counsel please identify	
	,
24 Exhibit 42 Document described as code 177 24 themselves and state whom they represent.	
24 Exhibit 42 Document described as code 177 24 themselves and state whom they represent. 25 MR. FERRALL: Brian Ferrall of Keker &	09:20:06

1					
	MR. FERRALL: Let's mark this as the next	15:26:35	1	message indicates that you are looking at an error	15:29:49
2	exhibit.		2	message. An ancient operating system called TOP	S-20
3	(Exhibit 38 was marked for identification		3	used such a convention and I adopted it."	
4	and is attached hereto.)		4	Do you see that?	
5	BY MR. FERRALL: 15:	26:37	5	A Yeah, I do see that. 15:29	:59
6	Q Exhibit 38 is a set of emails between you		6	Q Why did you adopt a TOPS-20 convention	?
7	and Mr. Remaker, among others. It bears control		7	A Of the possibilities that I had, that	
8	numbers CSI-ANI-00043306.		8	seemed that seemed a reasonable to me, it	
9	A Okay. I'd like to read this.		9	seemed like a reasonable way of doing things.	
10	Q First let me ask you the question so you	15:27:19	10	Q Did you get permission from Digital	15:30:32
11	know what to look for.		11	Equipment Company to use that convention?	
12	A I will forget the question by the time I'm		12	MR. NEUKOM: Objection. Calls for a lega	al
	done reading this.		1000	conclusion and misstates prior testimony.	W
14	Q Well, Mr. Lougheed, that's not the way it		14	THE WITNESS: No, I did not seek	
	works, actually. I ask the question and you answer	15:27:28	Sint.	permission. 15:30:55	
	it.	10.27.20	200	BY MR. FERRALL:	
17	A Okay.		17	Q Have you ever heard of the acronym RIP in	X.
18	Q If you can't answer it, then you tell me.		1000	the context of networking?	H
19	My only question is, did you send the		19	A It typically means routing information	
	·	15.27.20			
		15:27:38	a mark	protocol. 15:31:18	
	12-11-2008 at 10:14 p.m.?		21	Q You're familiar with that protocol?	
22	MR. NEUKOM: Mischaracterizes the docum	ent	22	A It's been a while, but yes, I'm familiar	
	on its face.		1000	with it.	
24	And I know that Mr. Ferrall would like you		24	Q Did you make up the acronym RIP for	
25	to feel comfortable to read the page-and-a-half	15:27:54 Page 122	25	routing information protocol?	:31:32 Page 12
1	document that he's just put in front of you before	15:27:57	1	A No, I did not make up that acronym.	15:31:37
	document that he's just put in front of you before answering his question.	15:27:57	1 2	A No, I did not make up that acronym.  Q Did you make up the term "routing.	15:31:37
	[] 경기 [] 경기 [] 경기 [] 경기 [] 경기 [] 경기 [] [] 경기 []	15:27:57	2		15:31:37
2	answering his question.	15:27:57	2	Q Did you make up the term "routing	15:31:37
2 3 4	answering his question.  THE WITNESS: Okay. I'll read it.		2	Q Did you make up the term "routing information protocol"?	15:31:37 15:31:51
2 3 4	answering his question.  THE WITNESS: Okay. I'll read it.  MR. FERRALL: Actually, no, I would like him to answer the question.  15:26		2 3 4 5	<ul> <li>Q Did you make up the term "routing information protocol"?</li> <li>A No.</li> <li>Q Did you submit an RFC for the routing</li> </ul>	
2 3 4 5 6	answering his question.  THE WITNESS: Okay. I'll read it.  MR. FERRALL: Actually, no, I would like		2 3 4 5	Q Did you make up the term "routing information protocol"?  A No.	
2 3 4 5 6	answering his question.  THE WITNESS: Okay. I'll read it.  MR. FERRALL: Actually, no, I would like him to answer the question.  Q Are you telling me you can't tell me whether you sent the email?		2 3 4 5 6 7	Q Did you make up the term "routing information protocol"?  A No. Q Did you submit an RFC for the routing information protocol?  A No.	
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N. ACCOMMON ALLOW SCHOOLS OF A RESIDENCE OF A STATE OF	Account	Table and the control of the control
		1 the like, or "database lookup" or 16:16:59
2 being sent sent out that interface, it could		2 BY MR. FERRALL:
3 either be permitted or denied going through that		3 Q Did you coin the term "domain lookup"?
4 interface.	(42.025000	4 A I decided to use that as a command
	10	5 expression within the software, yes. 16:17:21
6 "access list" command expression.		6 Q I'll ask the question one more time. I'm
7 Q Do you believe that you coined the term		7 asking you if you coined the term "domain lookup."
8 "access list"?		8 MR. NEUKOM: Objection. Asked and
9 A It was my choice to use that description.		9 answered and vague.
그렇는 [2]	en evalue	10 THE WITNESS: 1 did not. 16:17:43
11 term, or had you ever heard that term before in the	1	11 BY MR. FERRALL:
12 context of networking?	100	12 Q Do you know who did?
13 MR. NEUKOM: Objection. Vague, compound,	100	13 A No idea.
14 asked and answered.	nouncement I in	14 Q When was to your knowledge, when was
		15 the term "routing" ever used in conjunction with the 16:18:41
16 heard the term before.		16 Internet protocol?
17 BY MR. FERRALL:	1 000	17 MR. NEUKOM: Objection. Vague and
18 Q Had you heard the term "IP access group" 19 before?	1.3	18 foundation.
20 A Yes. 16:13:25	133	19 THE WITNESS: I don't know when the term
20 A Yes. 16:13:25 21 Q Who coined that term, to your knowledge,		20 "routing" was used. 16:19:05 21 BY MR, FERRALL:
22 do you know?	1 3	
23 A I did.		
24 Q Under what circumstances? Or for what	1.33	23 routing in connection with IP before you joined 24 Cisco?
25 purpose, I should say? 16:13:39		25 MR. NEUKOM: Objection. Vague, compound. 16:19:
25 purpose, 1 should say: 10.13.35	Page 142	Page 144
1 A I don't remember the exact details, but it 16:1	3:52	1 THE WITNESS: Yes. 16:19:27
2 is either assigns an access list to an interface		2 BY MR. FERRALL:
3 or I think it assigns an interface to a an		3 Q Tell me what, if anything, was creative
4 access list to an interface. I believe it's access		4 about your decision to use the term "IP routing" as
5 class or something like that that assigns it to an 16:	14:07	5 a CLI command. 16:19:51
6 interface or to a line number.		6 MR. NEUKOM: Objection. Calls for opinion
7 Q The term "domain name" is not a term that		7 testimony.
8 you made up, is it?	;	8 THE WITNESS: At Stanford where we had
9 A No, I didn't make I no, I did not.	9	9 terminal servers and gateways in the same software,
Q "Domain name" is a term that goes back to	6:15:38	10 there were times when it was convenient just 16:20:26
It the ARPANET, actually. Are you aware of that?	1	11 because something had multiple interfaces, it could
MR. NEUKOM: Objection. Foundation.	12	12 still perhaps be a terminal server. So I needed a
THE WITNESS: I would be unsurprised if it	13	13 way of turning off, disabling routing functionality.
14 went back that far.	14	14 And I used the command I chose the
Are you referring to ARPANET protocols or	16:16:02	15 keyword configuration keyword command expression 16:21:07
6 ARPANET network?	16	16 "routing." Then "no routing" would turn off routing
7 BY MR. FERRALL:	17	17 functionality in whatever software was running at
Q The ARPANET network.	18	18 the time despite its hardware configuration.
A I believe the concept was introduced while	MANUFACTURE AND A STATE OF THE	19 And then later on at Cisco, to keep the
	6:16:15	20 keep the form of the hierarchy of commands, we added 16:21:35
	21	21 the we added our choice of we added "IP" in
		22 front of it becomes your model and mail the town off
Decrease and the second and the seco	22	22 front of it because you could potentially turn off
<ul><li>you coin that term "domain lookup"?</li><li>MR. NEUKOM: Objection. Vague.</li></ul>	7.000	23 other sorts of routing, or at least that was the
<ul> <li>you coin that term "domain lookup"?</li> <li>MR. NEUKOM: Objection. Vague.</li> <li>THE WITNESS: It's a parallel construction</li> </ul>	23	A SPORTE CONTRACTOR OF A SECUNDAR CONTRACTOR O

1	BY MR. FERRALL: 17:55:19	1 interior routing protocols. And customer networks, 17:59:19
2	Q Mr. Lougheed, this is a document that	2 especially in the early days when they were attached
3	appears to be your work, according to the copyright	3 to the they had campus networks running one
4	notice on the front.	4 routing protocol, they'd be attached to the NSFNET
5	Do you see that? 17:55:29	5 backbone as well running a different routing 17:59:39
6	A Yes, I see that.	6 protocol.
7	Q Okay. Do you know when do you	7 And since routing protocols would give
8	recognize it?	8 incommensurate metrics, metrics that could not be
9	A Yes, I do.	9 compared, I developed a concept of distance that
10		10 says if one routing protocol says it knows a route 18:00:08
11	17	11 to one destination and another routing protocol says
12	declaring a set of variables that are used in the	12 it knows a route to that same destination, which
	software.	13 the routing protocol with the smallest
4		14 administrative distance would be the one that would
	Exhibit 42? 17:56:02	15 be entered into the routing table. 18:00:24
6		16 And so that was the problem, and my
7		17 solution was the administrative distance mechanism
	Exhibit 42?	
9	A Apparently June of 1985.	18 that I described.
20	Q And you were employed by Stanford at that 17:56:28	And when I implemented BGP, that was a
	time, right?	20 natural extension to include for BGP as well to be 18:00:49
	A Correct.	21 able to configure an administrative distance to
2		22 determine the believability of BGP.
3	Q We had talked earlier about the ARP,	23 If no routing protocol if only one
	address resolution protocol.	24 routing protocol knew the destination, you would
25	Do you remember that? 17:56:57 Page 178	25 believe that. If there are two or more, 18:01:10 Page 1
1	A Yes. 17:56:58	I administrative distance was the tie-breaker. 18:01:16
2	Q Okay.	<ol> <li>Q Sorry. I'm going to jump back to ARP.</li> </ol>
3	A I remember you asked questions about that.	There's a term you use associated with
4	Q Are you familiar with there being a	4 ARP, "ARP cache." We talked about that earlier in
5	provision for time-outs in the ARP protocol? 17:57:15	5 looking at one of the "clear" commands, right? 18:01:52
6	MR. NEUKOM: Objection. Vague and	6 Where did the term "ARP cache" come from?
7	compound.	7 A The cache is a logically a list of
8	THE WITNESS: There is the ARP entries	8 items. An ARP cache would be a list of ARP requests
	can become stale. If you unplug the computer or you	9 that have been satisfied, including their MAC
		10 addresses and how long since the last time we'd seen 18:02:3
	network interface, entries will become stale.	11 a the router had seen an ARP request go by for
	Implementing a time-out is a way of making sure the	12 that particular source address.
	cache isn't stale.	
	BY MR. FERRALL:	That sort of computer science concept of a  14 cache is found all over.
	TABLE SECTION AND THE SECTION AND SECTION SECT	
5		Q One of the commands that is indicated that 18:03:14
	for time-outs in the RFC for ARP?	16 you authored is the command "boot system."
7	MR. NEUKOM: Objection. Vague and	Had you ever heard someone use the words
	compound, asked and answered.	18 "boot system" together before you joined Cisco?
9	THE WITNESS: I'm not I don't remember	MR. NEUKOM: Objection, Vague.
	such language right now. 17:58:38	THE WITNESS: I had heard phrases like 18:03:45
1	BY MR. FERRALL:	21 "boot the system up," "reboot the system," "reload
2	Q Did you create the term "distance BGP"?	22 the system," "start the system," "restart the
3	A Yes.	23 system."
4	Q How did you come up with that term?	24 (Exhibit 43 was marked for identification
5	A The Cisco IOS started supporting multiple 17:59:11	25 and is attached hereto.) 16:48:10
	Page 179	Page 1

1 Q How did you choose the term — the words   18:13:39   2			- 4 \$	TIOMILIS ETES ONET
2 **Insers basis* for this function? 3 A 1 don't remember where "basis* came from. 4 But using the keyword "inners* was my was my 5 introduction, was my creation. 8 MR. FERKALL: Okay. Well, 1 given 9 beyond seven hours. 8 MR. FERKALL: Okay. Well, 1 given 10 time, but I will say I think we deserve some more 18:14:22 11 time with him. 13 you're going to say enough is enough for today 1 14 kack it; is that right? 15 MR. NEUKOM: Certainly for today 1 16 sake of the witness. And we will respectfully 17 disagree with the idea that counsel needs more than 18 seven hours 18 were hours. 20 MR. NEUKOM: - needs more than today. 21 In the meantime, I should note for the 22 are cord the witness reserves the right to review the 23 ecord the witness reserves the right to review the 24 transcript and make corrections. 25 Brian. In not sure I did that for 18:14-51 26 MR. NEUKOM: I hope you're right, but glad 10 to have the stipulation, even if it's unnecessary. 11 MR. FERRALL: Okay. 13 MR. NEUKOM: I hope you're right, but glad 10 to have the stipulation, even if it's unnecessary. 14 K. IRIK LOUGHEED, do hereby declare under 29 penalty of perjury that I have read the foregoing 20 transcript; that I have read the foregoing 21 transcript; that I have made any correction as a 21 papear noted, in ink, initialed by me, or attached 21 herefo; that my testimony as contained herein, as 13 corrected, is true and correct. 21 Except that in presention as 14 papear noted, in ink, initialed by me, or attached 22 herefo; that my testimony as contained herein, as 13 corrected, is true and correct. 24 EXECUTED this day of	1 Q How did you choose the te	rm the words 18:13:39	1	 I
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2	NORTHERN DISTRICT OF CALIFORNIA
3	SAN JOSE DIVISION
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4	GEGGO GYGERING ING GET NE E 14 TE 05244 DEF (DGG)
_	CISCO SYSTEMS, INC. Case No.: 5:14-cv-05344-BLF(PSG)
5	District 66
_	Plaintiff,
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-	v.
7	
_	ARISTA NETWORKS, INC.
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0	Defendants.
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14	VIDEOTAPED DEPOSITION OF KIRK LOUGHEED
15	Palo Alto, California
16	Monday, April 4, 2016
17	Volume 2
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20	Depart of her
21	Reported by:
22	LESLIE JOHNSON
23	RPR, CSR No. 11451
24	Job No.: 2285024
25	PAGES 190 - 399
	Page 190
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1 UNITED STATES DISTRICT COURT	1 INDEX
2 FOR THE NORTHERN DISTRICT OF CALIFORNIA	2
3 SAN JOSE DIVISION	3 WITNESS EXAMINATION
4	4 KIRK LOUGHEED
CISCO SYSTEMS, INC. Case No.: 5:14-cv-05344-BLF(PSG)	Volume 2
5	6 BY MR. WONG 197
Plaintiff,	7
6	8 EXHIBITS
v.	9 KIRK LOUGHEED
7	10 NUMBER DESCRIPTION PAGE 11 Exhibit 452 Copy of name badge; 1 page 198
ARISTA NETWORKS, INC.	12 Exhibit 453 Black and white copy of photograph; 198
8	1 page
Defendants.	13
9	Exhibit 454 Patent Agreement; Bates stamped 208
10	14 KL-0000872 to 891
11	15 Exhibit 455 A Multiple Protocol Kernel for 228  Local Area Network Software
12	16 Development Reference Manual; Bates
13	stamped KL-00000001 to 93
* HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY *	17
15	Exhibit 456 Document entitled "Chaosnet"; Bates 238
16	18 stamped KL-00000186 to 250
17 VIDEOTAPED DEPOSITION OF KIRK LOUGHEED, Volume 2,	19 Exhibit 457 Document entitled "Debugging 241
18 taken on behalf of Defendant, at 601 California Avenue,	Information"; Bates stamped 20 KL-0000564-654
19 Palo Alto, California, beginning at 9:25 a.m. and ending	21 Exhibit 458 DECnet Digital Network Architecture 244
20 at 4:37 p.m., on Monday, April 4, 2016, before	(Phase V); Bates stamped
21 LESLIE JOHNSON, Certified Shorthand Reporter No. 11451.	22 KL-00000251 to 380
22 23	23 Exhibit 459 E-mail from Stanford Low Overhead 252
24	Timesharing; Bates stamped
25	24 KL-00001699 to 763
Page 191	Page 193
1 APPEARANCES:	1 EXHIBITS (Cont.) 2 KIRK LOUGHEED
2	3 NUMBER DESCRIPTION PAGE
3 FOR PLAINTIFF CISCO SYSTEMS, INC.:	4 Exhibit 460 E-mail dated 10-Jan-83 from Barb 260 at ISL to Computer Committee; Bates
4 QUINN EMANUEL URQUHART & SULLIVAN LLP	5 stamped KL-00000868 to 871
	6 Exhibit 461 Stanford Ethertip/Gateway User and 263
	Configuration Guide; Bates stamped 7 CSI-CLI-01315367 to 97
6 50 California Street, 22nd Floor	8 Exhibit 462 Letter dated August 21, 1986 from 281
7 San Francisco, California 94111	Robert L. Street to Len Bosack;  9 Bates stamped CSI-CLI-01839502
8 (415)875-6600	to 504
9 johnneukom@quinnemanuel.com	10 Exhibit 463 E-mail dated 4/3/2006 from Kirk 298
10 FOR DEFENDANT ARISTA NETWORKS, INC.:	Exhibit 463 E-mail dated 4/3/2006 from Kirk 298  11 Lougheed to Vivian Neou; Bates
	stamped CSI-CLI-01124245
11 KEKER & VAN NEST LLP	12 Exhibit 464 Cisco's Amended Exhibit F; 44 pages 302
12 BY: RYAN WONG, ESQ.	13
13 633 Battery Street	Exhibit 465 Software Unit External Functional 310
14 San Francisco, California 94111	14 Specification; Bates stamped CSI-CLI-00608751 to 752
15 (415)391-5400	15
16 rwong@kvn.com	Exhibit 466 ipsupport.c miscellaneous IP 328 16 support code; 20 pages
	17 Exhibit 467 Document entitled "Part 3: Media 332
17 ALSO PRESENT:	Access Control (MAC) Bridges";
18 SEAN GRANT, Videographer	18 Bates stamped ARISTANDCA00032440 to 812
19	19
20	Exhibit 468 Contents of "tip" directory; 1 page 348
21	Exhibit 469 Commandl.c ASM/AGS commands; 355
	21 Bates stamped KL-SC-00000001 to 9
22	22 Exhibit 470 Config.c parse and act upon 358 configuration commands; Bates
23	23 stamped KL-SC-00000010 to 20
24	24 Exhibit 471 Exec.c ASM/AGS command level; 365
25	Bates stamped KL-SC-00000021 to 32 25
Page 192	Page 194
Page 192	Páge 19

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1	EXHIBITS (Cont.)	1	THE VIDEOGRAPHER: Thank you. Will the
2	KIRK LOUGHEED		certified court reporter please swear in the
3	NUMBER DESCRIPTION PAGE	1	witness.
	Exhibit 472 "cisco.c" source code; 1 page 371	4	
	Exhibit 473 "stanford.c" source code; 1 page 371	5	
6	Exhibit 474 Source code; Bates stamped 375		having been administered an oath, was examined and
	KL-SC-00000033 to 41	7	-
7	T 1711 485 C 1 D 1 0 1 0 0 0		
1	Exhibit 475 Source code; Bates stamped 375 KL-SC-00000042 to 52	8	
8			,
	and Configuration Guide; Bates		BY MR. WONG:
10	stamped CSI-CLI-00358622 to 54	11	Q. Good morning, Mr. Lougheed.
11	***	12	A. Good morning.
12		13	Q. Mr. Lougheed, do you understand that this
13			is a continuation of your personal deposition that
14		ı	was taken back on November 20th, 2015?
15		16	
16		17	· · · · · · · · · · · · · · · · · · ·
17			testifying under oath as if you were testifying at
18		19	trial?
19 20		20	A. I do.
21		21	Q. And is there any reason why you cannot
22		22	give full and truthful testimony today?
23		23	A. There is no reason.
24		24	Q. And are you generally still familiar with
25		25	the ground rules for a deposition?
	Page 195		Page 197
1	Palo Alto, California, Monday, April 4, 2016	1	A. Yes.
2	9:25 a.m.	2	Q. Okay. Well, I'll just repeat some of the
3		3	more important rules. If you need to take a break
4	THE VIDEOGRAPHER: Good morning. We're on	l .	at any time, just let me know. And all I'd ask is
1	the record. The time is 9:25 a.m., and the date is	I	that if there is a question pending, that you answer
	April 4th, 2016. This begins Volume 2 of the		it before we go on the break. Okay?
1	videotaped deposition of Mr. Kirk Lougheed. My name	7	
	is Sean Grant, here with our court reporter, Leslie	8	MR. WONG: Why don't we mark this as the
	Johnson. We're here from Veritext Legal Solutions	l	first exhibit for today.
1	at the request of counsel for Defendant. This	10	(Exhibit 452 marked for identification.)
	-	11	MR. WONG: And we will mark this one as
1	deposition is being held at Wilson Sonsini in Palo		the next exhibit.
	Alto, California. The caption of this case is	13	
	"Cisco Systems Inc. versus Arista Networks Inc.,"		(Exhibit 453 marked for identification.)
	Case No. 5:14-cv-05344-BLF.	14	MR. NEUKOM: Ryan, I have two separate
15	Please note that audio and video recording		pieces of paper. Are you treating these as two
1	will take place unless all parties have agreed to go		separate exhibits?
1	off the record. Microphones are sensitive and may	17	MR. WONG: Yes. I'm going to give them
	pick up whispers, private conversations or cellular		two exhibit numbers and read them into the record in
	interference.		just a second.
20	At this time, will counsel please identify	20	The court reporter has marked as
	themselves and state whom they represent.		Exhibit 452 a photocopy photo bearing Bates Nos.
22	MR. WONG: Ryan Wong from Keker & Van Nest		KL-00002202. The court reporter has also marked as
23	for Defendant Arista Networks.		Exhibit 453, a black and white photo with Bates Nos.
24	MR. NEUKOM: John Neukom for the plaintiff		KL-00002201.
25	and also today for the witness.	25	////
	Page 196		Page 198
			2 (Dagga 105 109)

	And a contract of the blood of the blood of the contract of the contract of the contract of the contract of the		SET STANDARD DOWN THE STANDARD WITH SECUNDARY WITH
1	source code for the original "ip access-group"	1	The state of the s
2			industry-standard term defined either on OSI or the
3	A. So writing it for that command would have		IEEE?
4	been part of writing the entire functionality of	4	The state of the s
5			opinion.
6		6	BY MR. WONG:
7	Q. If you turn to page 20 on Exhibit 464.	7	The second secon
8		8	
9	A. Okay. I'm on page 20.	9	"MAC address."
10		10	
11	"mac-address."	11	"mac-address" command to Cisco IOS, had the IEEE, to
12	Do you see that?	12	your knowledge, already started using the term "MAC
13	A. Uh-huh.	13	address"?
14	<ol><li>Q. Are you the originator of the</li></ol>	14	A. Yes.
15	"mac-address" command?	15	Q. How long did it take you strike that.
16	A. Yes.	16	How long did it take you to come up with
17	Q. How do you know that you're the originator	17	the syntax for the "mac-address" command?
18	of the "mac-address" command?	18	A. I don't remember how long. I suspect it
19	A. I remember the problem that I was solving	19	was less than a day.
20	that I needed that sort of functionality.	20	Q. Why do you say that?
21	Q. What was the problem that you were trying	21	A. I tend to make decisions quickly.
22	to solve by the "mac-address" command?	22	Q. How long did it take you to write the
23	A. I needed to send packets on a serial line	23	source code for the functionality associated with
24	that actually which a serial line does not have	1.527 (12.7)	the "mac-address" command?
25	MAC addresses, but I needed to somehow get a MAC	25	<ol> <li>It was probably the same day.</li> </ol>
	Page 319		Page 321
1	address associated with that particular serial line.	1	Q. Did you ever consider a command syntax
2	Q. Was that related to a client request?	2	without the hyphen between "mac" and "address"?
3	A. Yes. I don't remember the exact customer	3	A. Stylistically, I prefer dashes as opposed
4	or the details to it.	4	to cramming the words together. I like commands
5	Q. Do you remember if the customer suggested		that have an English-like flavor to them. And I
6	you calling the command "mac-address"?		detest periods in commands and underscores. So this
7	A. I don't remember if the customer suggested	7	A DESCRIPTION OF THE STATE OF T
8	anything in that particular in that particular	8	Q. Did you ever consider two let me strike
	instance.	9	that.
10	Q. And is the function of the "mac-address"	10	Do you know what a token is in the context
	command to associate a MAC address with a particular	2000	of a command?
	serial line?	12	A. Yes.
13	A. It could be a serial line. It could be	13	Q. Did you ever consider a command syntax of
14	actually any interface. It would depend what	l .	"mac address"?
	protocols are running across the interface as to	15	A. I don't recall if I did.
	what it would do.	16	Q. What impact would it have, if any, on the
17	Q. And what is strike that.		
18	The MAC part of the words "mac-address,"	18	Would the CLI behave differently if the
	that refers to media access control, correct?	19	command was "mac address," as opposed to
20	A. Yes.	20	"mac-address"?
21	Q. And we talked about that media access	21	MR. NEUKOM: Objection. Hypothetical
	control being a layer defined by OSI, correct?		question.
23	A. I think we were wondering whether it was	23	THE WITNESS: Well, it behaves differently
	OSI or IEEE.		in that instead of one token, there's two tokens.
25	Q. Thank you.		So there would be that.
20	Q. Thank you.	23	So there would be that.

Page 322

Page 320

1	REPORTER'S CERTIFICATION	
2	I, Leslie Johnson, a Certified Shorthand	
3	Reporter of the State of California, do hereby certify:	
4	That the foregoing proceedings were taken	
	before me at the time and place herein set forth; that	
	any witnesses in the foregoing proceedings, prior to	
	testifying, were administered an oath; that a record of	
	the proceedings was made by me using machine shorthand	
	which was thereafter transcribed under my direction;	
	that the foregoing transcript is a true record of the	
11	testimony given.	
12	Further, that if the foregoing pertains to	
	the original transcript of a deposition in a Federal	
14	Case, before completion of the proceedings, review	
	of the transcript [] was [] was not requested.	
	I further certify I am neither financially interested in	
	the action nor a relative or employee of any attorney or	
18	any party to this action.	
19	IN WITNESS WHEREOF, I have this date	
	subscribed my name.	
	Dated: April 19, 2016	
22		
23	deslie Johnson LESLIE JOHNSON	
24	·	
25	CSR No. 11451, RPR, CCRR	
	Page 399	
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1
                    UNITED STATES DISTRICT COURT
 2
              FOR THE NORTHERN DISTRICT OF CALIFORNIA
 3
 4
      CISCO SYSTEMS, INC.,
 5
 6
                Plaintiff,
 7
                                   )Civil Action No.:
           vs.
 8
     ARISTA NETWORKS, INC., )5:14-cv-05344-BLF(PSG)
 9
                Defendant.
                                   )
10
11
12
                            CONFIDENTIAL
13
14
             VIDEOTAPED DEPOSITION OF DEVADAS PATIL
15
                       Palo Alto, California
16
                     Sunday, February 21, 2016
17
                              Volume 1
18
19
20
21
     Reported by:
22
     RACHEL FERRIER, CSR No. 6948
     Job No. 2223126
23
24
25
     PAGES 1 - 234
                                                      Page 1
```

COIVITI	DENTIAL
1 UNITED STATES DISTRICT COURT	1 INDEX
2 FOR THE NORTHERN DISTRICT OF CALIFORNIA	2
3	3 WITNESS EXAMINATION
4	4 DEVADAS PATIL
5 CISCO SYSTEMS, INC., )	5 VOLUME 1
, and the second	6 BY MR. RYAN 8, 121
6 Plaintiff, )	7 BY MR. CANNON 217
7 vs. )Civil Action No.:	8
8 ARISTA NETWORKS, INC., )5:14-cv-05344-BLF(PSG)	
9 Defendant. )	9
10	10
11	11 INSTRUCTION NOT TO ANSWER
12	12 Page Line
13	13 2
14 VIDEOTAPED DEPOSITION OF DEVADAS PATIL, VOLUME 1,	14
15 taken on behalf of the Defendant, at Wilson Sonsini	15
16 Goodrich & Rosati, 650 Page Mill Road, Palo Alto,	16
17 California, beginning at 9:25 a.m. and ending at	17
18 3:44 p.m. on Sunday, February 21, 2016, before	18
19 RACHEL FERRIER, Certified Shorthand Reporter No. 6948.	19
20	20
21	21
22	22
23	23
24	24
25	25
Page 2	Page 4
1 APPEARANCES:	1 EXHIBITS
2	2 NUMBER DESCRIPTION PAGE
3 For Plaintiff:	3
4 KEKER & VAN NEST LLP	4 Exhibit 310 Subpoena to Testify at a
5 BY: RYAN WONG	Deposition in a Civil 5 Action to Devadas Patil 21
Į	6 Exhibit 311 Letter dated 2/19/16 to
	7 Devadas Patil from Sean Park 22
1	8 Exhibit 312 Resume for Devadas Patil 29
8 San Francisco, CA 94111	9 Exhibit 313 Resume for Devadas Patil
9 415.773.6682	(Bates CSI-CLI-01611242 -
10 rwong@kvn.com	10 01611243) 49
11 10 F. D. C. J	11 Exhibit 314 "Business Development Trends and 12 Analysis for the Data Networking
12 For Defendant:	13 Market" by Devadas Patil 107
13 QUINN EMANUEL URQUHART & SULLIVAN, LLP	Exhibit 315 IEEE 802.1AB Standard for
14 BY: MATTHEW D. CANNON	14 local and metropolitan
15 Attorney at Law	area networks
16 50 California Street, 22nd Floor	16 (Bates ARISTANDCA00017907
17 San Francisco, CA 94111	- 18078) 117 17 Exhibit 316 Spreadsheet entitled
18 415.875.6412	18 "Corrected Information
19 matthewcannon@quinnemanuel.com	19 Regarding Cisco Command
20	20 Expression Associated
21	with Devadas Patil" 121
22 Videographer:	21 Exhibit 317 LLDP on Cisco IOS Software
23 SOSEH KEVORKIAN	Functional Specification (Bates CSI-CLI-01507526
24	23 (Bates CSI-CLI-01507526 24 - 01507544) 134
25	25
Page 3	Page 5

CONFIL	ENTIAL
1 EXHIBITS	1 MR. CANNON: Matthew Cannon from Quinn, Emanuel 09:26AM
2 NUMBER DESCRIPTION PAGE	2 on behalf of Plaintiff Cisco and the witness. 09:26AM
3	
4 Exhibit 318 Parser-Police Manifest,	· ·
5 Version 5	,
(Bates CSI-CLI-00358164) 165	5 having been administered an oath, was examined and 09:26AM
6 Exhibit 319 E-mail dated 10/10/07 7 from Devadas Patil	6 testified as follows: 09:26AM
8 (Bates CSI-CLI-00836482) 176	7 EXAMINATION 09:26AM
9 Exhibit 320 E-mail chain dated 8/10/06	8 BY MR. WONG: 09:26AM
10 from Devadas Patil	9 Q Good morning. 09:26AM
(Bates CSI-CLI-00817320	10 A Morning. 09:26AM
11 - 817321) 180	11 Q Please state your full name for the record. 09:26AM
12 Exhibit 321 E-mail chain dated 8/21/06	12 A Devadas Patil. 09:26AM
13 from Devadas Patil	13 Q And, Mr. Patil, what is your home address? 09:26AM
14 (Bates CSI-CLI-0817660) 183	14 A 3137 Kittery Avenue in San Ramon, California 09:26AM
15 Exhibit 322 Cisco IOS Carrier Ethernet  Command Reference	15 94583. 09:26AM
16 (Bates CSI-CLI-00291752	16 Q And who is your current employer, Mr. Patil? 09:26AM
17 - 292238) 191	17 A GE Digital. 09:27AM
18 Exhibit 323 E-mail chain dated 1/5/06	18 Q Do you have a work e-mail address for GE Digital? 09:27AM
19 from Devadas Patil	19 A I do. 09:27AM
20 (Bates CSI-CLI-00810826	20 Q Could you please state it for the record. 09:27AM
- 810828) 208	21 A It is devadas.patil@ge.com. 09:27AM
21 Exhibit 324 E-mail chain dated 2/1/06	22 Q Do you have any personal e-mail addresses that 09:27AM
22 from Devadas Patil 23 (Bates CSI-CLI-00811125	23 you use, Mr. Patil? 09:27AM
23 (Bates CSI-CLI-00811125 24 - 811128) 212	24 A I do. 09:27AM
25	25 Q Could you please state those for the record. 09:27AM
Page 6	Page 8
1 Palo Alto, California; Sunday, February 21, 2016	1 A Dpatil44@hotmail.com. 09:27AM
2 9:25 a.m.	2 Q Anything else? 09:27AM
3	3 A That's the only one I do use. 09:27AM
4 THE VIDEOGRAPHER: Good morning. 09:25AM	4 Q Okay. And you current or, excuse me, strike 09:27AM
5 THE WITNESS: Morning. 09:25AM	5 that. 09:27AM
6 THE VIDEOGRAPHER: We are on the record at 09:25AM	6 You previously worked for Cisco; correct? 09:27AM
7 9:25 a.m. on February 21st, 2016. 09:25AM	7 A That's correct. 09:27AM
8 This is the video-recorded deposition of Devadas 09:25AM	8 Q Did you have an e-mail address when you were 09:27AM
9 Patíl. 09:25AM	9 employed at Cisco? 09:27AM
10 My name is Soseh Kevorkian, here with our Court 09:25AM	10 A Yes. 09:27AM
11 Reporter, Rachel Ferrier. We are here on behalf of 09:25AM	11 Q And what was that e-mail address while you were 09:27AM
12 Defendants at 650 Page Mill Road in Palo Alto, 09:25AM	12 employed at Cisco? 09:27AM
13 The caption of this case is Cisco Systems, 09:25AM	13 A If I recall from five years ago, it's 09:27AM
14 Incorporated, versus Arista Networks, Incorporated, Case 09:25AM	14 dpatil@cisco.com, I think. 09:27AM
15 No. 5:14-cv-05344- BLF(PSG). 09:25AM	15 Q Okay. Mr. Patil, are you being represented by 09:28AM
16 Please note that audio and video recording will 09:25AM	16 counsel at this deposition? 09:28AM
17 take place unless all parties agree to go off the 09:26AM	17 A Yes. 09:28AM
18 record. 09:26AM	18 Q Okay. And who's representing you at this 09:28AM
19 Microphones are sensitive. They pick up 09:26AM	19 deposition? 09:28AM
20 whispers, private conversations, and all cellular 09:26AM	20 A Matt Cannon. 09:28AM
21 interference. 09:26AM	21 Q Mr. Cannon 09:28AM
22 At this time, would counsel and all present 09:26AM	22 A Mr. Cannon 09:28AM
23 please identify themselves for the record. 09:26AM	23 Q to your left? 09:28AM
MR. WONG: Ryan Wong from Keker & Van Nest for 09:26AM	24 A Correct. 09:28AM
25 Defendant Arista Networks. 09:26AM	25 Q Have you ever been deposed before, Mr. Patil? 09:28AM
Page 7	Page 9

1 MR. WONG: Right. 12:24PM	1 activity for LLDP was was happening, and it I 12:28PM
2 Q The Arista Networks's EOS was an example of 12:24PM	2 recall that it was it was slow for a period of time 12:28PM
3 innovation in this area; correct? 12:24PM	3 in between and then it took off again. 12:28PM
4 MR. CANNON: Objection; vague 12:24PM	4 BY MR. WONG: 12:28PM
5 THE WITNESS: Example, yes. 12:24PM	5 Q And you didn't participate in any of the efforts 12:28PM
6 MR. CANNON: mischaracterizes prior testimony, 12:24PM	6 to standardize LLDP from the '90s to 2004; is that 12:28PM
7 lacks foundation, calls for improper opinion testimony. 12:24PM	7 right? 12:28PM
8 BY MR. WONG: 12:24PM	8 A No. No. 12:28PM
9 Q And these are these are your words here on 12:24PM	9 Q And you played no role whatsoever in the creation 12:28PM
10 page 17 of Exhibit 314; correct, Mr. Patil? 12:24PM	10 of the LLDP standard; correct? 12:28PM
11 A These are my words, yes. 12:24PM	11 A No. 12:28PM
12 Q And you believed them to be true when you wrote 12:24PM	12 Q And how did you first learn about LLDP? 12:28PM
13 your thesis marked as Exhibit 314; correct? 12:24PM	13 A When I was tasked to lead that project at Cisco. 12:28PM
14 MR. CANNON: Objection; calls for improper 12:24PM	14 Q Who tasked you to lead that project at Cisco? 12:29PM
15 opinion testimony, lacks foundation. 12:24PM	15 A My director. 12:29PM
16 THE WITNESS: These are my words. These are my 12:24PM	16 Q Who was your director? 12:29PM
17 opinions. 12:25PM	17 A Purnam Sheth. 12:29PM
18 MR. WONG: Yeah. 12:25PM	18 Q Can you spell that, please. 12:29PM
19 Q Can you please provide me with a general 12:25PM	19 A S-h-e-t-h is the last name, and first name is 12:29PM
20 description of what "LLDP" is? 12:25PM	20 P-u-r-n-a-m. 12:29PM
21 A Yes. Yes, I can. 12:25PM	21 Q And how did you learn about the LLDP standard, 12:29PM
22 Q What what is "LLDP"? 12:25PM	22 the the way it worked? 12:29PM
23 A "LLDP" stands for Link Layer Discovery Protocol, 12:25PM	23 A I upon being tasked with this with this 12:29PM
24 and it is a at a high-level, it's a standardized way 12:25PM	24 project, to lead this project, I did some initial 12:29PM
25 for devices to discover each other and know of each 12:25PM	25 research and it was very aggressive project at that 12:29PM
Page 114	Page 116
0.9	7.797.77
1 other. 12:25PM	1 point, and so I yeah, I researched it actively and 12:29PM
2 Q When you say it's a "standardized way for devices 12:25PM	2 wanted to know as much of it as possible as early as 12:29PM
3 to discover each other and know of each other," what do 12:26PM	3 possible. 12:29PM
4 you mean by a "standardized way"? 12:26PM	4 Q When were you tasked with the LLDP project? 12:29PM
5 A "Standardized" in the sense that it's a industry 12:26PM	5 A Late 2005. 12:30PM
6 standardized agreement and and ratified agreement on 12:26PM	6 Q And what documents, if any, did you review to 12:30PM
7 how a discovery can happen in a standardized way, and 12:26PM	7 learn about the LLDP standard? 12:30PM
8 it's meant in contrast with how proprietary discovery 12:26PM	8 A 1 recall reviewing the very first version of the 12:30PM
9 mechanisms can happen. 12:26PM	9 RFC that they put out that was still not ratified, but 12:30PM
10 Q When you say it's a "ratified agreement," what do 12:26PM	10 there was an RFC and that that got me into it, yeah. 12:30PM
11 you mean by "ratified"? 12:26PM	11 Q Did you review the IEEE standard that related to 12:30PM
12 A "Ratified" means something that has been 12:26PM	12 LLDP? 12:30PM
13 something that has withstood the test of time and has 12:26PM	13 A Yes. 12:30PM
14 been reviewed by several experts in the industry who 12:27PM	14 MR. WONG: Let's mark this as 315, please. 12:30PM
15 who have the ability to see that not just from a 12:27PM	15 (Exhibit 315 was marked for 12:31PM
16 feature perspective but also from a holistic perspective 12:27PM	16 identification by the Court Reporter.) 12:31PM
17 to see if it was actually viable viable to do that, 12:27PM	17 MR. WONG: The Reporter has marked, as 12:31PM
18 and then they collectively meet and discuss their 12:27PM	18 Exhibit 315, document bearing control numbers 12:31PM
19 concerns and refine the standard appropriately and then 12:27PM	19 ARISTANDCA00017907 to 18078. 12:31PM
20 agree on a version that is that can be considered 12:27PM	20 Q Mr. Patil, do you recognize the document marked 12:31PM
21 standard. 12:27PM	21 as Exhibit 315? 12:31PM
22 Q Do you know when LLDP was standardized? 12:27PM	22 A I do. 12:31PM
23 MR. CANNON: Objection; vague. 12:27PM	23 Q And what is the document marked as Exhibit 315? 12:31PM
24 THE WITNESS: The initial attempt, I think, from 12:27PM	24 A This is the 802.1AB, which is the technical name 12:31PM
25 late '90s to early to 2004 is when the standards 12:28PM	25 for LLDP, and it's an IEEE standard that represents the 12:31PM
Page 115	Page 117

CONTR	ENTIAL
1 A Okay. Yeah, I'm done. 01:04PM	1 mentioned, did the LLDP project involve implementing 01:07PM
2 Q Do you understand that Cisco has identified you 01:04PM	2 LLDP on those other operating systems? 01:07PM
3 as the author or originator of the commands lifted 01:04PM	3 A I was not aware of that. 01:07PM
4 listed on the left-side column of Exhibit 316? 01:05PM	4 Q Okay. So your personal involvement in Phase 1 of 01:07PM
5 A Yes. 01:05PM	5 the LLDP project focused only on implementing LLDP for 01:07PM
6 Q Okay. Now, are these commands listed in 01:05PM	6 Cisco IOS; correct? 01:08PM
7 Exhibit 316 associated with the LLDP project that we 01:05PM	7 A Mm-hmm. Yeah. 01:08PM
8 have been talking about this morning? 01:05PM	8 Q We mentioned strike that. 01:08PM
9 A Yes. 01:05PM	9 You mentioned the different stages that were part 01:08PM
10 Q Were these commands added to Cisco IOS as part of 01:05PM	
11 Phase 1 of the LLDP project? 01:05PM	11 Do you remember that? 01:08PM
12 A Yes. That's correct, yes. 01:05PM	12 A Yes. 01:08PM
13 Q Okay. You can set that aside for now, Mr. Patil. 01:05PM	13 Q Can you let me know strike that. 01:08PM
14 We were talking before the break about how you 01:05PM	14 Can you list for me again the stages in the order 01:08PM
15 became involved in the LLDP project. 01:05PM	15 that they are handled? 01:08PM
16 Do you remember that? 01:05PM	16 MR. CANNON: Objection; asked and answered. 01:08PM
17 A Mm-hmm. 01:05PM	17 THE WITNESS: It's market analysis, slash, 01:08PM
18 Q Were there particular Cisco products that the 01:05PM	18 requirements as Stage 1. Architecture would be Stage 2. 01:08PM
19 LLDP implementation was going to apply to? 01:05PM	19 Design would be Stage 3, and implementation and testing 01:08PM
20 A Yes. 01:05PM	20 would be Stages 4 and 5. 01:08PM
21 Q Okay. And I'm asking at the time that you 01:05PM	21 BY MR. WONG: 01:08PM
22 started working on the LLDP project. 01:05PM	22 Q Testing is the fifth stage; correct? 01:08PM
23 Do you understand? 01:05PM	23 A Yes. 01:08PM
24 A Mm-hmm. 01:05PM	24 Q And it would go in that order, from Stage 1 to 01:08PM
25 Q What Cisco products were targeted for the LLDP 01:05PM	25 Stage 2 to Stage 3 to Stage 4 to Stage 5; correct? 01:09PM
Page 122	Page 124
I implementation at the start of Phase I of the project? 01:06PM	1 A Technically, yes, but in the interest of time, 01:09PM
2 A The initial rollout was for the Catalyst family 01:06PM	2 some of these phases will stages will overlap. 01:09PM
3 of enterprise switches, the Catalyst 6500, the 01:06PM	3 Q How long did Phase 1 of the LLDP project take to 01:09PM
4 Catalyst 3000 series was soon to follow after that and, 01:06PM	4 go from Stage 1 to Stage 5? 01:09PM
5 later on, other platforms, including the SR1K, it opted 01:06PM	5 A I would say Stage 1 to Stage 5, roughly six 01:09PM
6 the standard. 01:06PM	6 months. 01:09PM
7 Q When you say "later on, other platforms," what do 01:06PM	7 O So it took six months to go from the 01:09PM
8 you mean by "later on"? 01:06PM	8 marketing/requirements stage all the way through the 01:09PM
9 A "Later on" as in the 2010-'11 time frame, yeah. 01:06PM	9 fifth testing stage for for Phase 1; correct? 01:09PM
10 Q Okay. So initially in 2005, though, what were 01:06PM	10 A Yes. 01:09PM
11 the targeted Cisco products for the LLDP implementation? 01:06PM	11 Q Which of the five stages consumed the most time 01:09PM
12 A The Catalyst switches. 01:06PM	12 out of those six months? 01:09PM
13 Q And in terms of the operating system that the 01:06PM	13 A Architecture and design. 01:10PM
14 LLDP implementation would apply to, was it just Cisco 01:07PM	14 Q Oh, Stages 2 and 3? 01:10PM
15 IOS? 01:07PM	15 A Yes. 01:10PM
16 A Yes. 01:07PM	16 Q Did either architecture or design take more time 01:10PM
17 Q Okay. You are aware of other operating systems 01:07PM	17 than the other? 01:10PM
18 that are used by other Cisco products? 01:07PM	18 A I would say architecture took took more than a 01:10PM
19 A 1 am. 01:07PM	19 couple couple months to firm up. 01:10PM
20 Q What are the other operating systems that you are 01:07PM	20 Q So how many months or weeks strike that. 01:10PM
21 aware of that are used by other Cisco products? 01:07PM	21 How long, approximately, did it take for the 01:10PM
22 A The Cisco XR, Cisco ENA. I think it's been 01:07PM	22 design stage of Phase 1 of the LLDP project to be 01:10PM
23 renamed the NX-OS. There's also what do they call 01:07PM	23 completed? 01:10PM
24 the software router, but those are the main ones. 01:07PM	24 A About three and a half to four weeks. 01:10PM
25 Q And those other operating systems that you just 01:07PM	25 Q And what is part of the design stage for Phase 1 01:10PM
Page 123	Page 125

DENTIAL
1 that with one with just one vendor's equipment just 01:40PM 2 to make SNMP work, and that level of interoperability at 01:40PM 3 the SNMP level can be very handy in in in larger 01:40PM 4 networks. 01:40PM 5 BY MR. WONG: 01:40PM 6 Q If there wasn't the standardization for SNMP 01:40PM 7 inquiries and you had a multivendor network, would you 01:40PM 8 have to write different SNMP inquiries for each network? 01:40PM 9 MR. CANNON: Objection; vague, incomplete 01:41PM 10 hypothetical, lacks foundation, calls for improper 01:41PM 11 opinion testimony. 01:41PM 12 THE WITNESS: If that were the case, then then 01:41PM 13 we are we are essentially talking of vendor-specific 01:41PM
14 Management Information Bases, and that would, at the 01:41PM
15 very least, at least require some level of nonstandard 01:41PM
16 or tailored queries for each vendor. 01:41PM
17 BY MR. WONG: 01:41PM
18 Q If you turn back to Exhibit 315, it's the IEEE 01:42PM
19 standard for LLDP. 01:42PM
20 A Yes. 01:42PM
21 Q Now, LLDP is a defined term in the IEEE standard; 01:42PM
22 correct? 01:42PM
23 A Yes. 01:42PM
24 Q In fact, if you look to page 5 of and I'm 01:42PM
6 25 looking pointing to page 5 at the bottom of the page 01:42PM Page 148
1 of Exhibit 315, there is a section on the top that it 01:42PM
2 says "Definitions and numerical representation." 01:42PM
3 Do you see that? 01:42PM
4 A Yes. 01:42PM
4 A Yes. 01:42PM 5 Q And entry 3.1.6 01:42PM
<ul> <li>Q And entry 3.1.6 01:42PM</li> <li>A Yes. 01:42PM</li> <li>Q defines Link Layer Discovery Protocol and, in 01:42PM</li> </ul>
A 5 Q And entry 3.1.6 01:42PM 6 A Yes. 01:42PM 7 Q defines Link Layer Discovery Protocol and, in 01:42PM 8 parentheses, LLDP, 01:42PM
4 5 Q And entry 3.1.6 01:42PM 6 A Yes. 01:42PM 7 Q defines Link Layer Discovery Protocol and, in 01:42PM 8 parentheses, LLDP. 01:42PM 9 Do you see that? 01:42PM
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1 Phase I of the LLDP project, that the IEEE standard for 01:43PM	1 1 that? 01:45PM
2 LLDP defined the acronym TLV; correct? 01:43PM	2 MR. WONG: I'll tell you once I see it. Yes, 01:45PM
3 MR. CANNON: Objection; vague, mischaracterizes 01:43F	. I ( ) ( )
	4 Q Are you there? 01:46PM
5 THE WITNESS: Yes. 01:43PM	5 A Yeah, I am. 01:46PM
6 BY MR. WONG: 01:43PM	6 Q So Section 10.3.4 is called "Too many neighbors." 01:46Pl
7 Q In fact, on page 7 of Exhibit 315, at the very 01:43PM	7 Do you see that? 01:46PM
8 top, it's a section called "Acronyms and abbreviations"; 01:43PM	8 A Mm-hmm. 01:46PM
9 correct? 01:43PM	9 Q Now, we were talking earlier about the use of the 01:46PM
0 A Yes. 01:43PM	10 word "neighbors" in the functional specification that 01:46PM
1 Q And both LLDP and TLV are listed as defined 01:43PM	11 you wrote 01:46PM
2 acronyms within the IEEE LLDP standard; right? 01:43PM	12 A Yes. 01:46PM
3 A Yes. 01:44PM	13 Q right? 01:46PM
4 Q And you were aware of that before you began the 01:44PM	1 14 A Yes. 01:46PM
5 design stage for Phase 1 of the LLDP project; right? 01:44PM	15 Q Is this use of the word "neighbors" here in the 01:46PM
6 A Yes. 01:44PM	16 IEEE specification the the same use of the word 01:46PM
7 Q And you were aware of that during the design 01:44PM	17 "neighbors" that you were using in the functional 01:46PM
8 period for the LLDP project; correct? 01:44PM	18 specification? 01:46PM
9 A Yes. 01:44PM	19 MR. CANNON: Objection; vague. 01:46PM
0 Q And if you look at Exhibit 316, which is this 01:44PM	20 THE WITNESS: I was I read this specification 01:46PM
1 list of commands? 01:44PM	21 thoroughly, so I yeah, I was influenced by some of 01:46PM
2 A Okay. 01:44PM	22 the language in here. 01:47PM
3 Q Are you there? 01:44PM	23 BY MR. WONG: 01:47PM
4 Each of the commands associated with you include 01:44PM	
25 the acronym LLDP. 01:44PM Page 150	25 terminology relevant to LLDP by reading the IEEE 01:47Pl Page 1:
Do you see that? 01:44PM	1 standard on LLDP; right? 01:47PM
2 A Yes. 01:44PM	2 MR. CANNON: Objection; vague. 01:47PM
3 Q That LLDP is the same LLDP that is defined within 01:44PM	3 THE WITNESS: Yes. 01:47PM
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1	I, the undersigned, a Certified Shorthand	
2	Reporter of the State of California, do hereby certify:	
3	That the foregoing proceedings were taken before	
4	me at the time and place herein set forth; that any	
	witnesses in the foregoing proceedings, prior to	
	testifying, were placed under oath; that a verbatim	
	record of the proceedings was made by me using machine	
	shorthand which was thereafter transcribed under my	
	direction; further, that the foregoing is an accurate	
	transcription thereof.	
11	I further certify that I am neither financially	
12	interested in the action nor a relative or employee of	
13	any attorney or any of the parties.	
14	IN WITNESS WHEREOF, I have this date subscribed	
15	my name.	
16	Dated: March 2, 2016	
17		
18		
19		
20	- B	
21	RACHEL FERRIER	
22	CSR No. 6948	
23		
24		
25	Page 234	
	1 age 234	
	,	

1	UNITED STATES DISTRICT COURT	
2	NORTHERN DISTRICT OF CALIFORNIA	
3	SAN JOSE DIVISION	
4		
5		
	)	
6	CISCO SYSTEMS, INC., )	
7	Plaintiff, )	
8	vs. ) Case No.:	
	) 5:14-cv-05344-BLF(PSG)	
9	ARISTA NETWORKS, INC., )	
10	Defendant. )	
	)	
11		
12		
13	ATTORNEYS' EYES ONLY - HIGHLY CONFIDENTIAL	
14	VIDEOTAPED DEPOSITION OF ABHAY ROY	
15	Palo Alto, California	
16	Friday, December 18, 2015	
17	Volume 1	
18		
19		
20		
21	Reported by:	
22	RACHEL FERRIER	
23	CSR No. 6948	
24	Job No. 2200521	
25	PAGES 1 - 232	
	Page 1	
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UNITED STATES DISTRICT COURT
                                                             1 APPEARANCES (continued):
         NORTHERN DISTRICT OF CALIFORNIA
 2
 3
             SAN JOSE DIVISION
                                                             3 For Defendant ARISTA NETWORKS, INC.:
 4
                                                                    KEKER & VAN NEST, LLP
                                                             5
                                                                    BY: DAVID J. SILBERT
 6 CISCO SYSTEMS, INC.,
                                                             6
                                                                    ELIZABETH K. McCLOSKEY
                                                             7
                                                                    Attorneys at Law
 7
        Plaintiff,
                                                             8
                                                                    633 Battery Street
                                                             9
                                                                    San Francisco, CA 94111
 8
                   )Case No.:
      VS.
                  )5:14-cv-05344-BLF(PSG)
                                                            10
                                                                    415.676.2269
 9 ARISTA NETWORKS, INC.,
                                                            11
                                                                    dsilbert@kvn.com
                                                            12
                                                                    emccloskey@kvn.com
10
        Defendant.
                                                            13
11
                                                            14
                                                                Videographer:
12
                                                            15
                                                                    CASSIA LEET
13
       VIDEOTAPED DEPOSITION OF ABHAY ROY, VOLUME
                                                            16
14 taken on behalf of the Defendant, at Wilson Sonsini
15 Goodrich & Rosati, 601 California Avenue, Palo Alto,
                                                            17
16 California, beginning at 9:30 a.m. and ending at
                                                            18
17 4:47 p.m. on Friday, December 18, 2015, before
                                                            19
18 RACHEL FERRIER, Certified Shorthand Reporter No. 6948.
                                                            20
19
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21
                                                            22
22
                                                            23
23
                                                            24
24
                                                            25
25
                                                    Page 2
                                                                                                                Page 4
                                                                          INDEX
 1 APPEARANCES:
                                                             2 WITNESS
                                                                                      EXAMINATION
 2
                                                             3 ABHAY ROY
                                                             4 VOLUME I
 3 For Plaintiff CISCO SYSTEMS, INC., and the Witness:
      QUINN EMANUEL URQUHART & SULLIVAN LLP
                                                                        BY MR. SILBERT 10, 87, 219
 5
      BY: JOHN M. NEUKOM
                                                            8
 6
      Attorney at Law
                                                                         EXHIBITS
                                                            10 NUMBER
                                                                             DESCRIPTION
                                                                                                PAGE
 7
      50 California Street, 22nd Floor
                                                            11 Exhibit 51 LinkedIn Profile for
 8
      San Francisco, CA 94111
                                                                    Abhay Roy
 9
                                                            12
      415.875.6320
                                                              Exhibit 52 Cisco IOS Master Command
10
      johnneukom@quinnemanuel.com
                                                                    List, All Releases
11 and
                                                            14 Exhibit 53 CLI Design and Review
12
      QUINN EMANUEL URQUHART & SULLIVAN LLP
                                                            15
                                                                    (Bates CSI-ANI-00073381 -
                                                                    00073381.000014)
13
      BY: SIDNEY ARCHIBALD
                                                            16
14
      Attorney at Law
                                                              Exhibit 54 Cisco's Third Supplemental
15
      555 Twin Dolphin Drive, 5th Floor
                                                            17
                                                                    Response to Interrogatory
                                                                    No. 16 and Response to
16
      Redwood Shores, CA 94065
                                                            18
                                                                    Interrogatory No. 19
17
      650.801.5000
                                                                    Amended Exhibit F
                                                                                           57
                                                           19
18
      sydneyarchibald@quinnemanuel.com
                                                              Exhibit 55 Bidirectional Forwarding
19
                                                           20
                                                                    Detection (BFD) for IPv4
                                                                    and IPv6 (Single Hop)
20
                                                           21
                                                                    (Bates ARISTANDCA00030805 -
21
                                                                    00030811)
                                                           22
22
                                                              Exhibit 56 The OSPF Specification
23
                                                           23
                                                                    (Bates ARISTANDCA00022597 -
                                                                    00022703)
24
                                                           24
25
                                                           25
                                                    Page 3
                                                                                                                Page 5
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HIGHLY CONFIDENTIAL	ATTORNEYS'EYES ONLY
I EXHIBITS 2 NUMBER DESCRIPTION PAGE 3 Exhibit 57 Bidirectional Forwarding Detection (BFD)	1 INDEX (Continued): 2 PREVIOUSLY MARKED EXHIBITS
4 (Bates ARISTANDCA00030756 - 00030804) 99	3 EXHIBIT PAGE 4 29 75
5 Exhibit 58 Internet Protocol, 6 Version 6 (IPv6)	5 (Retained by Counsel)
Specification 7 (Bates ARISTANDCA00025710 - 00025746) 105	6 7 INSTRUCTION NOT TO ANSWER
Exhibit 59 OSPF Commands: ip ospf     fast-reroute per-prefix	8 Page Line 9 57 23
through R 130	9 57 23
Exhibit 60 CSCdi42640 11 (Bates CSI-CLI-01542004) 137	11
12 Exhibit 61 CSCdj76740 140 13 Exhibit 62 CSCdj76740 140	12
14 Exhibit 63 Screen shot of a webpage titled "Do you have	13
15 knowledge of IPR in draft-ietf-isis-mi" 169	14
16 Exhibit 64 Screen shot of a webpage	16
17 titled "Re:[68ATTENDEES] RFC Author License	17
18 Execution Opportunity" 171 19 Exhibit 65 E-mail chain dated 11 123/1/5 to Los Poulter	18
11/23/15 to Leo Boulton, 20 et al., from Brian Jackson	19
21 (Bates CSI-CLI-01477442 - 01477448) 179	20 21
22 Exhibit 66 E-mail chain dated 9/8/15	22
23 from Umesh Dudani to Abhay Roy	23
24 (Bates CSI-CLI-01438733 - 01438743) 193	24
Page 6	25 Page 8
1 EXHIBITS	
2 NUMBER DESCRIPTION PAGE 3 Exhibit 67 E-mail chain dated 7/3/13	1 Palo Alto, California; Friday, December 18, 2015 2 9:30 a.m.
from Vittal Krishnamurthy to Pranav Mehta, et al.	3 09:30AM
(Bates CSI-CLI-01483915 - 5 01483921) 201	4 THE VIDEOGRAPHER: Good morning. We are on the 09:30AM 5 record at 9:30 a.m. on December 18th, 2015. 09:30AM
6 Exhibit 68 E-mail chain dated 9/16/15 from Shane Corban to Yong	5 record at 9:30 a.m. on December 18th, 2015. 09:30AM  6 This is the video-recorded deposition of 09:30AM
7 Hu, et al. (Bates CSI-CLI-01440122 -	7 Abhay Roy. 09:30AM
8 01440128) 204	8 My name is Cassia Leet, here with our Court 09:30AM
9 Exhibit 69 OSPFv3 support in IOS Software Unit Functional	9 Reporter, Rachel Ferrier. We are here from Veritext 09:30AM
10 Specification (Bates CSI-CLI-00609752 -	10 Legal Solutions at the request of counsel for the 09:30AM  11 defendant. 09:30AM
11 00609769) 219 12 Exhibit 70 Support of BFD in OSPFv2	12 This deposition is being held at 601 California 09:30AM
Functional Specification 13 (Bates CSI-CLI-00610401 -	13 Avenue, Palo Alto, California 94304. 09:30AM
00610409) 219	14 The caption of this case is Cisco Systems, Inc., 09:31AM
14 Exhibit 71 CSCdk33792 219	15 versus Arista Networks, Inc., in the United States 09:31AM
15 Exhibit 72 CSCdk33792 219	16 District Court, Northern District of California, 09:31AM 17 San Jose Division, Case No. 5:14-cv-05344-BLF (PSG). 09:31AM
16 Exhibit 73 Support of BFD in OSPFv2	18 Please note that the audio and video recording 09:31AM
17 Functional Specification (Bates CSI-CLI-00610410 -	19 will take place unless all parties agree to go off the 09:31AM
18 00610420) 219	20 record. Microphones are sensitive and may pick up 09:31AM
19 20	21 whispers and private conversations. 09:31AM  22 I am not related to any party in this action, nor 09:31AM
21 22	22 I am not related to any party in this action, nor 09:31AM 23 am I financially interested in the outcome in any way. 09:31AM
23 24	24 If there are any objections to the proceeding, 09:31AM
25 Page 7	25 please state them at the time of your appearance, 09:31AM
	Page 9

1 Q Okay. What's the significance of the term "ip" 11:24AM	1 this document, Exhibit 29? 11:27AM
2 at the start of this command? 11:24AM	2 MR. NEUKOM: Objection; foundation. 11:27AM
3 A IP I think we we kept "ip" as the top-level 11:24AM	3 THE WITNESS: So I'm just reading page 1 or 11:27AM
4 keyword for things which were related to IP before, so 11:24AM	4 what you have in your bottom as 1557. Just below the 11:27AM
5 "ip" really implies IP Version 4. 11:24AM	5 RFC 791, it says, Replaces RFC 760, which generally 11:27AM
6 Q Okay. And just to back up for a second, IP 11:24AM	6 implies there was prior work, which which his 11:27AM
7 stands for Internet protocol; correct? 11:24AM	7 supersedes. 11:27AM
8 A That is correct. 11:24AM	8 BY MR. SILBERT: 11:28AM
9 Q And IPv4 stands for or refers to Version 4 of 11:24AM	9 Q Okay. And forgive me if I've asked you this 11:28AM
10 the Internet protocol; is that correct? 11:24AM	10 (Discussion off the stenographic record.) 11:28AM
11 A That is correct. That is correct. 11:24AM	11 BY MR. SILBERT: 11:28AM
12 Q And the Internet protocol is specified in a 11:24AM	12 Q I apologize if I've asked you this already, but 11:28AM
13 standard published by the IETF; correct? 11:24AM	13 have have you heard the Internet protocol abbreviated 11:28AM
14 A That it's correct. 11:24AM	14 IP outside the context of Cisco? 11:29AM
15 Q And IPv4 is specified in a standard published by 11:24AM	15 A As in what are the other possible abbreviations? 11:29AM
	TOOL TOOLS IN A SECURITY OF THE SECURITY OF TH
16 the IP IETF; correct?	16 For example, intellectual property we use "IP" term all 11:29AM
17 A Yes, that's correct. 11:25AM	17 the time. 11:29AM
18 Q Okay. The aeronym IP was used by the industry to 11:25AM	
19 refer to Internet protocol before Cisco used it in CLI 11:25AM	My question is: Have you heard the abbreviation 11:29AM
20 commands; correct? 11:25AM	20 IP used to refer to the Internet protocol outside the 11:29AM
21 MR. NEUKOM: Objection; foundation. 11:25AM	21 context of Cisco? 11:29AM
22 THE WITNESS: So the term "IP," just like we 11:25AM	22 MR. NEUKOM: Objection; vague. 11:29AM
23 discussed for BFD right? when you write Internet 11:25AM	23 THE WITNESS: So in in IETF as part of my 11:29AM
24 standard, you try to abbreviate technologies, and, 11:25AM	24 role in IETF, people do loosely refer Internet Protocol 11:29AM
25 again, we can look at that document and confirm that's Page 74	25 Version 6 as "IP," as as one one of the variants. 11:29AM Page 76
25 again, we can look at that document and confirm that's 11:25AM	25 Version 6 as "IP," as as one one of the variants. 11:29AM
25 again, we can look at that document and confirm that's Page 74  1 true or not. I'm guessing it says Internet protocol and 11:25AM	25 Version 6 as "IP," as as one one of the variants. 11:29AM Page 76  1 There are, again, multiple ways to say that. 11:29AM
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25 again, we can look at that document and confirm that's Page 74  1 true or not. I'm guessing it says Internet protocol and 11:25AM that abbreviates it as "IP," and the document refers to 11:25AM that so that you don't have to keep saying "Internet 11:25AM	25 Version 6 as "IP," as as one one of the variants. 11:29AM Page 76  1 There are, again, multiple ways to say that. 11:29AM 2 BY MR. SILBERT: 11:29AM 3 Q Have you heard the expression "TCP/IP"? 11:29AM
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1 introduced again, I'm trying to recollect from my 11:31AM	1 A Yes. 11:34AM
2 20-year-old memory. IP OSPF existed in the sense that 11:31AM	2 MR. NEUKOM: Objection; misstates prior 11:34AM
3 there were commands with IP OSPF some other options. It 11:31AM	3 testimony. 11:34AM
4 made sense to attach authentication to that chain 11:31AM	4 THE WITNESS: Yes. I don't have, again, specific 11:34AM
5 already rather than sort of create something brand new. 11:31AM	5 recollection of what sort of documentation or documents 11:34AM
6 BY MR. SILBERT: 11:31AM	6 we wrote at that time. 11:34AM
7 Q Okay. And, in fact, if you look below looking 11:31AM	7 BY MR. SILBERT: 11:34AM
8 still at Exhibit 54, if you look immediately below "ip 11:31AM	8 Q Okay. We have talked a little bit about OSPF. 11:34AM
9 ospf authentication," do you see the entry for "ip ospf 11:31AM	9 There's an OSPF standard that's published by 11:34AM
10 authentication-key"? 11:32AM	10 IETF; correct? 11:34AM
11 A Yes, I see that. 11:32AM	11 MR. NEUKOM: Objection; vague. 11:34AM
12 Q And the if you look there, the date of the 11:32AM	12 THE WITNESS: So OSPF is basically Open Shortest 11:34AM
13 earliest-known document that's listed for that 11:32AM	13 Path First. It's one of the routing protocols. OSPF 11:34AM
14 expression is 1993, which is five years or so earlier 11:32AM	14 has had multiple IETF standards published over time, and 11:34AM
15 than the date listed for "ip ospf authentication"; is 11:32AM	15 as we just saw, in the case of IP, sometimes the newer 11:35AM
16 that correct? 11:32AM	16 one deprecate the older one and so on, so there are 11:35AM
17 A That's what this document says, yes. 11:32AM	17 multiple standards out there related to OSPF. 11:35AM
18 Q Do you know what the person or persons who came 11:32AM	18 MR. SILBERT: Okay. 11:35AM
19 up with the expression "ip ospf authentication" referred 11:32AM	19 (Exhibit 56 was marked for 11:35AM
20 to when coming up with that expression? 11:32AM	20 identification by the Court Reporter.) 11:35AM
21 A Are you asking for the previous command, which is 11:32AM	
PSS - Frank or more flavor flavor flavor of the properties and the first flavor of the first of the	21 BY MR. SILBERT: 11:35AM
22 the "ip ospf authentication" 11:32AM	Q Mr. Roy, would you please look at Exhibit 56 and 11:36AM
23 Q Yes. 11:32AM	23 tell me if you recognize it. 11:36AM
24 A or the "key" command 11:32AM	24 A Yes, I do. 11:36AM
25 Q No. 11:32AM	25 Q What is it? 11:36AM
Page 7	Page 80
1 A the previous okay. 11:32AM	I A This is another of OSPF standards RFC, which 11:36AM
2 Q Yeah. 11:32AM	2 specifies OSPF protocol, protocol specification. 11:36AM
3 A "Ip ospf authentication" referred to enabling the 11:32AM	3 Q And this document states that it was published in 11:36AM
4 authentification features as we said, it could be 11:33AM	4 October 1989; correct? 11:36AM
	4 October 1989, confect:
a proper tout on it could be managed dispert on that 11.77 A M	5 A That is assessed
5 clear text or it could be message digest on that 11:33AM	5 A That is correct. 11:36AM
6 interface. 11:33AM	6 Q And the author listed here is someone named 11:36AM
6 interface. 11:33AM 7 Q Yeah, I apologize because my question 11:33AM	6 Q And the author listed here is someone named 11:36AM 7 J. Moy, M-o-y; is that correct? 11:36AM
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1 and that's very typical in IETF standards, that the long 11:38AM	1 A Yeah, I see that. 11:41AM
2 things we create aeronym at the first reference and 11:38AM	2 Q What is an area data structure in OSPF? 11:41AM
3 continue to use it in this document. 11:38AM	3 MR. NEUKOM: Objection; calls for opinion 11:41AM
4 Q So my question is just this: So far as you know, 11:38AM	4 testimony. 11:41AM
5 someone outside of Cisco came up with the acronym OSPF; 11:38AM	5 THE WITNESS: So "data structure" is is a 11:41AM
6 correct? 11:38AM	6 computer science terminology which is how you store 11:41AM
7 A So IETF IETF products is a complicated 11:38AM	7 data, potentially, in a software implementation. 11:41AM
8 process, and let me just give you a quick glimpse of it. 11:38AM	8 "Area" is a concept introduced in this RFC 11:41AM
9 What you are seeing is the finished product, 11:38AM	9 which which refers to a collection of devices which 11:42AM
10 which John Moy was the lead author and he took it to the 11:38AM	10 have which are in the same area or who make a 11:42AM
11 RFC. 11:38AM	11 collective decision together by by knowing each 11:42AM
12 What happened before that and how many versions 11:38AM	12 other's state up front. 11:42AM
13 were there and who are the people who sort of worked and 11:38AM	So Internet data structure, I think, is going 11:42AM
14 collaborated to get to this stage, you can find that 11:38AM	14 into, if you had such a collection of objects, these are 11:42AM
15 information, that how many earlier revisions of the 11:38AM	15 the objects you probably want to keep in that collection 11:42AM
16 drafts are there, who are the collaborator, where they 11:38AM	16 of objects. 11:42AM
17 worked for whichever companies they worked for, 11:39AM	17 BY MR. SILBERT: 11:42AM
18 right? and how did they come to this.	18 Q Okay. Okay. Would you look at two pages more 11:42AM
19 So it's hard to say, just looking at this, who 11:39AM	19 at on the page that ends with the Bates No. 624. 11:42AM
20 came with this and who coined the term or who coined the 11:39AM	20 A Yes. 11:42AM
21 acronym OSPF. 11:39AM	21 Q And do you see the bolded term "authentication 11:42AM
22 Q Okay. But nevertheless, that acronym was in 11:39AM	22 type"? It's in the top third 11:42AM
23 common usage before it was used by Cisco in a CLI 11:39AM	23 A Yes, I see that. 11:42AM
24 command; correct? 11:39AM	24 Q of the page? 11:42AM
25 MR. NEUKOM: Objection; calls for opinion 11:39AM	25 A Yeah, I see that. 11:42AM
Page 82	Page 84
1 testimony. 11;39AM	1 Q Under the OSPF standard, does an operator specify 11:42AM
THE WITNESS: So I don't know when Cisco 11:39AM	2 the authentification type to be used for an area? 11:43AM
3 implemented OSPF first, so it's hard to say what 11:39AM	3 MR. NEUKOM: Objection; vague, calls for opinion 11:43AM
4 happened first. 11:39AM	4 testimony. 11:43AM
5 Again, a corollary comment, a lot of times Cisco 11:39AM	5 THE WITNESS: So as per this document, what was 11:43AM
6 is is the driver of technologies, and we implement 11:39AM	6 described here is in a area you could specify if 11:43AM
7 things, and then we publish standards off it, so there 11:39AM	7 authentication is in use, and I think it also refers to 11:43AM
8 could be a coincidence where it has been used in Cisco 11:39AM	8 this other section where you can find details of what 11:43AM
9 before or or in a standard document before again, 11:39AM	9 types of authentication, Appendix E. 11:43AM
10 I don't know enough history on this that what happened 11:40AM	10 As a as a operator, you may or may not choose 11:43AM
11 when. 11:40AM	11 to have authentication. That is totally up to you. If 11:43AM
12 BY MR. SILBERT: 11:40AM	12 you think your network is very secure, you may choose to 11:43AM
13 Q Okay. You are going to agree with me, though, I 11:40AM	13 not have authentication. If you really want to secure 11:43AM
14 think, that the standard itself uses the acronym OSPF; 11:40AM	14 your network, there are a variety of ways to 11:43AM
15 right? 11:40AM	15 authenticate it, and this just refers to that what 11:43AM
16 A The document does create the acronym for the use 11:40AM	16 mechanisms exist at the area level. 11:44AM
17 for the document. 11:40AM	17 BY MR. SILBERT: 11:44AM
TABLE TO BE A TOTAL TO BE BUTCHES OF THE STREET OF THE STR	
- 1987年 - 19	18 Q Okay. And would you agree that authentication is 11:44AM
19 the Bates No. 622? 11:40AM	19 a concept that's introduced in this OSPF specification? 11:44AM
20 MR. NEUKOM: Sorry, what page, David? 11:40AM	20 MR. NEUKOM: Objection; calls for opinion 11:44AM
21 MR. SILBERT: Bates No. 622. 11:40AM	21 testimony and vague. 11:44AM
22 MR. NEUKOM: Okay. Thank you. 11:41AM	22 THE WITNESS: This document has used the term 11:44AM
23 BY MR. SILBERT: 11:41AM	23 "authentication," but basically what we are talking 11:44AM
24 Q Do you see Section 6 that's with the heading "The 11:41AM	24 about is: Are there ways are there ways to validate? 11:44AM
사람들은 그렇게 그렇게 하시면 하시면 하시면 하시면 되었다. 회사는 회사는 회사를 보고 있다면 하시면 하시면 하시면 하시면 되었다면 그래마다는 사람들이 되었다.	
25 Area Data Structure"? 11:41AM Page 83	25 Are there ways to secure communication between devices? 11:44AM

1 MR. SILBERT: Okay. We need to change the tape, 11:44AM	
	1 Q there is a bold entry "authentication type." 12:25PM
2 so we will have to pause there. 11:44AM	2 Do you see that? 12:25PM
3 THE VIDEOGRAPHER: This marks the end of 11:44AM	3 A Yes. 12:25PM
4 Volume 1, Media No. 1 of the deposition of Abhay Roy. 11:44AM	4 Yeah, so what what that in the what 12:25PM
5 The time is 11:44 a.m. We are off the record. 11:44AM	5 is what it's trying to say in the RFC is if you have 12:25PM
6 (Lunch recess taken.) 11:44AM	6 for area some objects one of the objects is the 12:25PM
700o 11:44AM	7 authentication type. That's what that document is 12:25PM
8 11:44AM	8 talking about. 12:25PM
9	9 Q And the the document is getting at the idea 12:25PM
0	10 that an operator can set the authentification type for 12:25PM
1	11 objects in an area; correct? 12:25PM
2	12 MR. NEUKOM: Objection; document speaks for 12:25
3	13 itself, calls for opinion testimony. 12:25PM
4	14 THE WITNESS: Yeah, so document is talking about, 12:26
5	15 at the area scope, if you support authentication, you 12:26PM
6	16 probably want to store objects related to the 12:26PM
	17 authentication in that type of data store. 12:26PM
7	Section 2007 Contraction of the Contraction Contractio
8	18 BY MR. SILBERT: 12:26PM
9	19 Q Okay. So looking at the command "ip ospf 12:26PM
0	20 authentication," the term "ip" in that command refers to 12:26PM
1	21 the Internet protocol standard; right? 12:26PM
2	22 MR. NEUKOM: Objection; misstates prior 12:26PM
3	23 testimony. 12:26PM
4	24 THE WITNESS: "ip" in that command refers to 12:26PM
5	25 Internet Protocol Version 4. 12:26PM
Page 8	
1 AFTERNOON SESSION 12:24 P.M. 11:44AM	1 BY MR. SILBERT: 12:26PM
12,2404	2 O Ober And the day a standard the day with the day 12-2500 f
2 12:24PM	2 Q Okay. And that's a standard that's published by 12:26PM
THE VIDEOGRAPHER: We are back on the record at 12:24PM	3 the IETF; correct? 12:26PM
3 THE VIDEOGRAPHER: We are back on the record at 12:24PM 4 12:24 p.m. 12:24PM	3 the IETF; correct? 12:26PM 4 A Internet protocol is an RFC 791, which is 12:26PM
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and the state of t		
1 A If you saw a complete re		1 A-c-e-e, Lindem, L-i-n-d-e-m, but I'm not 100 percent 12:37PM
	could find it from there. 12:33PM	2 sure if he was still on that team or he left Cisco by 12:37PM
3 Q What would I look for to		3 that time. 12:37PM
4 A You could search for key		4 Q Okay. Can you remember any other names of people 12:37P
5 "authentication."	12:33PM	5 who were on the team? 12:37PM
6 Q Okay. Who else was on	the team who came up with 12:331	하다 [1] - [12] - [12] - [12] 이미막 에 역 및 (12] 및 (12] 의 (12] 의 (12] 및 (12] 및 (12] 및 (12] 및 (12] 의 (12] 및 (12] 및 (12]
7 the command "ip ospf authent	ication"? 12:33PM	7 Q Okay. Referring back to Exhibit 54, would you 12:38PM
8 A So I'm trying to recollect	t who all were part of 12:34PM	8 please turn to page 12. 12:38PM
9 the OSPF team. There were p	robably a small set of 12:34PM	9 A Yeah, I'm there. 12:38PM
10 people.	12:34PM	10 Q In the bottom third of the page, do you see the 12:38PM
11 Are you looking for speci	fic names? 12:34PM	11 command expression "ip ospf bfd"? 12:38PM
12 Q Yes.	12:34PM	12 A Yes. 12:38PM
13 A One person I could think	of is Derek Yeung. 12:34PM	13 Q Okay. And then in the next column with the 12:38PM
14 Q Can you spell that, please	e. 12:34PM	14 heading "Author/Originator Information," it says "Cisco" 12:38PM
15 A Actually, he calls himsel		15 and your name; correct? 12:38PM
16 okay. D-r-e-k [sic] and Yeung	A STATE OF THE PERSON OF THE P	16 A Yes. 12:38PM
17 Q Okay.	12:34PM	17 Q Did you come up with the expression "ip ospf 12:38PM
18 A He was he was one of		18 bfd"? 12:38PM
19 team.	12:34PM	19 A Yeah, so BFD I was the lead implementer of it 12:38PM
process of the control of the second		20 and very likely I proposed the the command. 12:39PM
	lled Padma, P-a-d-m-a. Her 12:341	
22 last name was Esnault, E-s-n-a		22 command. 12:39PM
23 names I can remember very cle		
24 people who were part of the O		
25 Q Is that the best recollection	TO THE TABLE OF THE PROPERTY O	25 I I proposed the command. Yeah, I think I proposed 12:39PM
	Page 94	Page 96
I sit here today, of who else was on t	he team that came up 12:35PM	1 the command. I don't think there was anybody else on 12:39PM
2 with the command "ip ospf authent	ication"? 12:35PM	2 this project. 12:39PM
3 A Yes.	12:35PM	3 Q Okay. And I appreciate your reasons for saying 12:39PM
4 Q Okay. Who else was on the to	eam that came up with 12:35PM	4 that, but my question is: Do you have any recollection 12:39PM
5 the command "bfd all-interfaces"?	12:35PM	5 of proposing this command "ip ospf bfd"? 12:39PM
6 A That was on page 3?	12:35PM	6 A Yes. 12:39PM
7 Q Correct.	12:35PM	7 MR. NEUKOM: Objection; asked and answered. 12:39PM
8 MR. NEUKOM: Page 3 of Ex		8 BY MR. SILBERT: 12:39PM
CONTRACTOR OF THE CONTRACTOR O		
	lly much later than 12:36PM	
	le date, which is 12:30PW	10 A I remember the document which described this, and 12:39PM
10 that, so this I'm just going with th	L 1 1100	
11 also listed here, 2004 to 2005. We		11 I think I was I was the author of the document. It's 12:39PM
11 also listed here, 2004 to 2005. We 12 engineers around that time on those	PF [phonetic] team. 12:36PM	12 a small amount of work. And generally what happens is 12:39PM
<ul> <li>11 also listed here, 2004 to 2005. We</li> <li>12 engineers around that time on those</li> <li>13 Couple names I can recollect. One</li> </ul>	PF [phonetic] team. 12:36PM was Liem, L-i-e-m, 12:36PM	<ul> <li>12 a small amount of work. And generally what happens is 12:39PM</li> <li>13 if there is large project, you have a larger group of 12:39PM</li> </ul>
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the management of the same of	
1 specified by the IETF; correct? 12:40PM	1 the OSPF standard, a newer version than what you have 12:45PM
2 A Yes. 12:40PM	2 shown me, and it talks about if you are compliant to 12:45PM
3 MR. NEUKOM: Objection; misstates prior 12:41PM	3 that version, that implementation could use BFD 12:45PM
4 testimony, calls for opinion. 12:41PM	4 services, 12:45PM
5 THE WITNESS: The OSPF acronym we have used is 12:41PM	5 BY MR. SILBERT: 12:45PM
6 for Open Shortest Path First protocol, which is also 12:41PM	6 Q Okay. What resources did you use when naming the 12:45PM
7 described and captured in RFC. 12:41PM	7 "ip ospf bfd" command? 12:46PM
8 BY MR. SILBERT: 12:41PM	
9 Q Okay. And the the term "bfd" in the command 12:41PM	9 THE WITNESS: By "resources" you are implying 12:46PM
10 "ip ospf bfd" refers to the BFD standard that's 12:41PM	10 what type of material documents, those kind of things? 12:46PM
11 specified by the IETF; correct? 12:41PM	11 MR. SILBERT: Correct. 12:46PM
12 A BFD acronym stands for Bidirectional Forwarding 12:41PM	12 THE WITNESS: I had looked at the specification, 12:46PM
13 Detection, which is which is, yes, also captured in 12:41PM	13 of course. It I don't know if it was this version or 12:46PM
14 IETF RFC. 12:41PM	14 if it was an earlier version of of the BFD protocol 12:46PM
15 Q And the BFD standard itself describes using BFD 12:41PM	15 specification, and beyond that, it may have been some 12:46PM
16 with OSPF; is that correct? 12:41PM	16 conversation about who wants it, but I don't have any 12:46PM
17 MR. NEUKOM: Objection; document calls for its — 12:41PM	17 specific recollection was there a formal Product 12:46PM
18 pardon me. Document speaks for itself, calls for 12:42PM	18 Requirement Document also written with it. 12:46PM
19 opinion testimony. 12:42PM	19 BY MR. SILBERT: 12:46PM
20 THE WITNESS: BFD spec again, my recollection 12:42PM	20 Q What do you mean when you say "some conversation 12:47PM
21 is BFD spec was written in a more generic sense. It may 12:42PM	21 about who wants it"? 12:47PM
22 or may not have explicitly called out how and which 12:42PM	22 A Yes. As I was saying earlier, most of the things 12:47PM
23 protocols you can you can make use of it, but, again, 12:42PM	23 we implement are of two categories, typically. 12:47PM
24 if you have some more text, I can look into it. 12:42PM	24 One is customer-driven, which is, you are talking 12:47PM
25 // 12:42PM Page 9	25 to certain customers. They are telling you they want 12:47PM Page 10
1 age 2	Tage 10
1 (Exhibit 57 was marked for 12:42PM	1 this type of technology. Then you try to build that 12:47PM
2 identification by the Court Reporter.) 12:43PM	2 technology. 12:47PM
3 BY MR. SILBERT: 12:43PM	3 Or they are innovation-driven, which is we want 12:47PM
4 Q Mr. Roy, would you please look at Exhibit 57 and 12:43PM	4 to showcase some new things which we have built, and 12:47PM
5 tell me if you recognize it. 12:43PM	5 they are more outwards. 12:47PM
6 A Yes, I do. 12:43PM	6 In the latter, you will not have a customer 12:47PM
7 Q What is it? 12:44PM	7 requirement document or Product Requirement Document 12:47PM
8 A This is an RFC which describes the base protocol 12:44PM	8 because there is nobody has requested at this point 12:47PM
9 for bidirectional detection. 12:44PM	9 versus, in the former case, you will have some level of 12:47PM
10 Q Would you look, please, at the page that ends 12:44PM	10 conversation, communication, or perhaps a more formal 12:47PM
11 with the Bates No. 760.	The state of the s
	11 document which describes what a customer really intends 12:47PM
2 A Yes, I'm there. 12:44PM	12 to do. 12:47PM
3 Q Do you see Section 3.1? Towards the bottom of 12:44PM	13 Q In the case of customer-driven developments, do 12:47PM
4 that section in that single paragraph, it says, "For 12:44PM	14 customers ever suggest CLI commands? 12:48PM
5 example, an OSPF implementation may request a BFD 12:44PM	15 MR. NEUKOM: Objection; vague, compound, phrased 12:48PM
6 session to be established to a neighbor discovered using 12:44PM	16 in the subjunctive. 12:48PM
7 the OSPF Hello protocol." 12:44PM	17 MR. SILBERT: Now you got me. 12:48PM
8 Do you see that? 12:44PM	18 THE WITNESS: Is that is that in reference to 12:48PM
9 A Yes, I see that, 12:44PM	19 this command in particular, or is it 12:48PM
Q And that sentence is describing using BFD with 12:44PM	20 MR. SILBERT: No. I was asking you more 12:48PM
21 OSPF; correct? 12:45PM	21 generally. 12:48PM
MR. NEUKOM: Objection; document speaks for 12:45PM	22 THE WITNESS: Okay. You are asking for my 12:48PM
	23 opinion? 12:48PM
23 itself, and to the extent it doesn't, calls for opinion 12:45PM	
	3
23 itself, and to the extent it doesn't, calls for opinion 12:45PM 24 testimony. 12:45PM 25 THE WITNESS: Yeah, it so this does reference 12:45PM	24 MR. SILBERT: I'm asking for your personal 12:48PM 25 knowledge. 12:48PM

1			
3 A — so the endorure title "Description" was 64-66PM 4 written by Friedman, and this describes what to less 0-146PM 5 aggesteds, by the basing on this describes what to less 0-146PM 6 Q Okay. Other than what your read in that document, 04-47PM 8 command operasion "p or of submission of the 04-47PM 9 A Na. 04-47PM 10 point, again, subject to any redirect based on 04-47PM 11 questioning by your counsel, 1 thank you very much law, 04-47PM 12 questioning by your counsel, 1 thank you very much law your formed, 1 thank you very much law your formed therein, and 1 mondending the 04-47PM 14 deposition. 04-47PM 15 THE WITNESS Sure. Thanks. 04-47PM 16 MR. NERKOM. No direct. 04-47PM 17 THE VIDEOGRAPHER: Obay. 10-447PM 18 MR. NERKOM. At this time. 04-47PM 19 THE VIDEOGRAPHER: This concludes todays 04-47PM 10 deposition of Abhay Ray. The number of media used was 94-47PM 10 deposition of Abhay Ray. The number of media used was 94-47PM 11 tree and will be resined by Vertices Lagd Solutions. 04-47PM 12 The time is 4-97 p.m. Wear off the record. 04-47PM 13 Lag Solution of this process of the proceedings and accurate 1 transcribed under out; that I have read the foregoing to make the subscribed of the proceedings was made by me using machine 1 transcribed under out; that I have the foregoing is an accurate 1 transcribed under out; that I have the subscribed of the proceedings was made by me using machine 1 transcribed under out; that I have the foregoing is an accurate 1 transcription thereof. 1 transcription thereof. 1 transcription thereof. 1 further certain the action nor a relative or employee of 1.5 any attempt or any attempt or any other parties. 1 minute of the proceedings and accurate 1 transcription thereof. 1 my name. 1 transcription thereof. 1 my name. 1 my attempt or any attempt or a relative or employee of 1.5 any attempt or a relative or employee of 1.5 any attempt or a relative or employee of 1.5 any attempt or a relative or employee of 1.5 any attempt or a relative or employee of 1.5 any attempt or a relative or	1	A So 04:46PM	1
4 Reporter of the State of California, do hereby certify: 5 suggested, so fin besing on this decement. 4 Q Okey, Other than what you read in that document. 5 of Q Okey, Other than what you read in that document. 6 Q Okey, Other than what you read in that document. 7 do you know anything else about the origination of the 04-47PM 8 command expression "in porf authentication". 9 A No. 04-47PM 10 Mik. SILBERT: Okey. Then thanks you. At this. 06-47PM 11 point, again, subject to any redirect based on 04-47PM 12 questioning by your counsel, I thank you very much for 04-47PM 13 your time and attention, and The concluding the 04-47PM 14 deposition. 15 THE WITNESS: State. Thanks. 16 Mik. NEUKOM: No direct. 16 Mik. NEUKOM: No direct. 17 THE VIDEOGRAPHER: Okay. 18 Mik. NEUKOM: No direct. 19 THE VIDEOGRAPHER: This concludes today's 04-47PM 10 three and will be retained by Verticat Legal Solutions. 04-47PM 11 three and will be retained by Verticat Legal Solutions. 04-47PM 12 (TIME NOTEE): 4-47 pm. We are off the record. 04-47PM 14 int, initialed by me, or attached hereto; that my 15 testifionry as contained heretin, as corrected, is true and 6 correct. 7 EXECUTED this	2	Q Thank you. 04:46PM	2
4 written by Friedman, and this describes what he has 04-64PM 3 suggested, of in besting on this document. 04-47PM 10 you know anything else about the origination of the 04-47PM 18 command expression "ip orgal authentication"? 04-47PM 19 you've know anything else about the origination of the 04-47PM 19 you've know anything else about the origination of the 04-47PM 19 you've know anything else about the origination of the 04-47PM 19 you've know anything else about the origination of the 04-47PM 19 you've know anything else about the origination of the 04-47PM 19 you've know anything else about the origination of the 04-47PM 19 you've time and siteration, and fire concluding the 04-47PM 19 you've time and siteration, of 04-47PM 19 you've time and siteration, of 04-47PM 19 you've time and siteration, of ince. 04-47PM 19 THE VIDEOGRAPHER: Okay. 04-47PM 19 THE VIDEOGRAPHER: Okay. 04-47PM 19 THE VIDEOGRAPHER: Okay. 04-47PM 19 THE VIDEOGRAPHER: Disc concludes today's 04-47PM 19 The VIDEOGRAPHER: Di	3	A so the enclosure title "Description" was 04:46PM	3 I, the undersigned, a Certified Shorthand
5 suggested, so Pin basing on this document. 04-47PM 6 Q Olay. Other than what you read in that document, 04-47PM 8 commend expression "ip-out authentication" 04-47PM 10 MK_SELBERT: Okay. Then thank you. At this 04-47PM 11 point, again, subject to any redirect based on 04-47PM 12 questioning, by your connect, 1d-and your your action of both of the proceedings. When the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under my 11 direction, further, that the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under my 11 direction, further, that the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under my 11 direction, further, that the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under my 11 direction, further, that the foregoing is an accurate 12 transcription to the was 10 started with the was thereafter transcribed under my 11 direction, further, that the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under my 11 direction, further, that the foregoing is an accurate 12 transcription to the was 10 started under not 11 direction, further, that the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under only the started under not 11 direction, further, that the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under my 11 direction, further, that the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under my 11 direction, further, that the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under my 11 direction, further, that the foregoing proceedings was made by me using machine 10 shorthand which was thereafter transcribed under on the started on the started on the started on the starte	4	written by Friedman, and this describes what he has 04:46PM	
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9 R No. 04-47PM 10 MK. SILBERT: Okay. Then shank you. 4 this 04-47PM 12 questioning by your counsel, I thank you very much for 04-47PM 13 your time and attention, and I'm concluding the 04-47PM 14 deposition. 04-47PM 15 THE WITNESS: Sure. Thanks. 04-47PM 16 MR. NEUKOM: No direct. 04-47PM 17 THE WIDEOGRAPHER: This concludes totally 3 deposition of Abbay Roy. The unner of media used was 04-47PM 18 MR. NEUKOM: No direct. 04-47PM 19 THE VIDEOGRAPHER: This concludes totally 3 deposition of Abbay Roy. The unner of media used was 04-47PM 19 THE VIDEOGRAPHER: This concludes totally 3 deposition of Abbay Roy. The unner of media used was 04-47PM 18 (TIME NOTED: 4-47 PM.) 22 The time is 4-47 p.m. We are off the record. 04-47PM 22 The time is 4-47 p.m. We are off the record. 04-47PM 22 The time is 4-47 p.m. We are off the record. 04-47PM 22 The time is 4-47 p.m. We are off the record. 04-47PM 22 The time is 4-47 p.m. We are off the proceedings was made by me using machine 10 shorthand which was thereafter transcribed under my 11 direction; (in three cord). If the foregoing is an accurate transcription thereof. 13 I further certify that I am neither financially 14 interested in the action nor a relative or employee of any attorney or any of the parties. In WITTNESS WHEREOF, I have this date subscribed 17 my name. 18 19 Dated: December 30, 2015 22 23 3 (Time Note). 20 20 20 20 20 20 20 20 20 20 20 20 20	8		
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15			
16    MR. NEUKOM: No direct.   04:47PM   16    IN WITNESS WHEREOF, I have this date subscribed   17    my name.   18    MR. NEUKOM: At this time.   04:47PM   19    Dated: December 30, 2015   20    deposition of Abhay Roy. The number of media used was   04:47PM   20    deposition of Abhay Roy. The number of media used was   04:47PM   21    three and will be retained by Veritext Legal Solutions.   04:47PM   22    The time is 4:47 p.m. We are off the record.   04:47PM   22    23    (TIME NOTED: 4:47 P.M.)   23    3    48    RACHEL FERRIER   25    CSR No.   6948   Page 232    1			
17 THE VIDEOGRAPHER: Okay. 04:47PM 18 MR. NEUKOM: At this time. 04:47PM 19 THE VIDEOGRAPHER: This concludes today's 04:47PM 20 deposition of Abbay Roy. The number of media used was 04:47PM 21 The time is 4:47 p.m. We are off the record. 04:47PM 22 The time is 4:47 p.m. We are off the record. 04:47 p.m. The time is 4:47			
18   MR. NEUKOM: At this time.   0447PM   19   Dated: December 30, 2015     20   deposition of Abhay Roy. The number of media used was 0447PM   20     21   three and will be retained by Veritext Legal Solutions, 0447PM   21     22   The time is 447 p.m. We are off the record. 0447PM   22     23   (TIME NOTED: 447 P.M.)   23   <			
19 THE VIDEOGRAPHER: This concludes today's 04;47PM deposition of Abhay Roy. The number of media used was 04;47PM 21 three and will be retained by Veritex Legal Solutions. 04;47PM 22 The time is 4-47 p.m. We are off the record. 04;47PM 22 The time is 4-4			
20 deposition of Abhay Roy. The number of media used was 04:47PM 21   21 three and will be retained by Vertiext Legal Solutions. 04:47PM 21   22 The time is 4:47 p.m. We are off the record. 04:47PM 22   23 (TIME NOTED: 4:47 P.M.) 23   24			
21 three and will be retained by Veritext Legal Solutions. 04:47PM 22 The time is 4:47 p.m. We are off the record. 04:47PM 23 (TIME NOTED: 4:47 p.M.) 24 24 RACHEL FERRIER 25 CSR No. 6948  Page 230  1 I, ABHAY ROY, do hereby declare under penalty 2 of perjury that I have read the foregoing transcript; 3 that I have made any corrections as appear noted, in 4 ink, initialed by me, or attached hereto; that my 5 testimony as contained herein, as corrected, is true and 6 correct. 7 EXECUTED this day of		•	
22 The time is 4:47 p.m. We are off the record. 04:47FM 22 23 <pre></pre>			
23			
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24 25	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of perjury that I have read the foregoing transcript; that I have made any corrections as appear noted, in ink, initialed by me, or attached hereto; that my testimony as contained herein, as corrected, is true and correct.  EXECUTED this day of,  2015, at,  (City) (State)	
25			
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		Page 231	

1	UNITED STATES DISTRICT COURT				
2	NORTHERN DISTRICT OF CALIFORNIA				
3	SAN JOSE DIVISION				
4					
	x Case No.				
5	: 5:14-cv-05344-BLF (PSG)				
	:				
6	CISCO SYSTEMS, INC., :				
	:				
7	Plaintiff, :				
	:				
8	vs. :				
	:				
9	ARISTA NETWORKS, INC., :				
	·				
10	Defendant. :				
	:				
11	x				
12					
13	VIDEOTAPED DEPOSITION OF GREG SATZ				
14	March 23, 2016				
15	HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY				
16 17	VOLUME 1				
18					
19					
20					
21	Reported by				
22	Brooke R. Bohr				
23	CSR No. 753				
24	Job No 2272380				
25	Pages 1 - 168				
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	Page 1				
L.	Veriteyt Legal Solutions				

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1	*	1	BOISE, IDAHO
2		2	March 23, 2016, 10:10 a.m.
3		3	
5	, , , , , , , , , , , , , , , , , , , ,	4	THE VIDEOGRAPHER: We are now on the record.
6			
7		5	Please note that the microphones are
8		6	sensitive and may pick up whispering and private
9		7	conversations. Please turn off all cell phones or
10		8	place them away from the microphones as they can
11		9	interfere with the deposition audio. Recording
12		10	will continue until all parties agree to go off
13	John M. Neukom, Esq. QUINN EMAMUEL URQUHART & SULLIVAN LLI	11	record.
13	50 California Street, 22nd Floor	12	My name is David Cromwell, representing
14		13	Veritext. The date today is March 23, 2016, and
	(415) 875-6320	14	the time is approximately 10:10 a.m. This
15		15	deposition is being held at Tucker & Associates
16			-
17	Brian L. Ferrall, Esq. KEKER & VAN NEST LLP	16	located at 605 West Fort Street, Boise, Idaho
17	633 Battery Street	17	83702, and is being taken by counsel for the
18	· ·	18	defendant.
13	(415) 391-5400	19	The caption of this case is Cisco
19	bferrall@kvn.com	20	Systems, Inc. v. Arista Networks, Inc. This case
20		21	is filed in the United States District Court,
21		22	Northern District of California, San Jose
22 23		23	Division, Case No. 5:14-CV-05344-BLF PSG. The
24		24	name of the witness is Greg Satz.
25		25	At this time, the attorneys present in
	Page 2		Page 4
1	WITNESS		4 20 4 1 14
2	GREG SATZ Page:	1	the room will identify themselves and the parties
3	Examination by Mr. Ferrall 5	2	they represent.
5	Examination by Mr. Neukom 151	3	MR. FERRALL: Brian Ferrall of Keker &
6	Further Examination by Mr. Ferrall 158	4	Van Nest on behalf of Arista Networks.
	****	5	MR. NEUKOM: John Neukom for the plaintiff.
7	P.V.II.D.I.W.O	6	THE COURT: Our court reporter, Brooke Bohr,
8	EXHIBITS	7	representing Veritext, will swear in the witness,
	Page:	8	and we can proceed.
10	·	9	
	Exhibit 400 Greg Satz LinkedIn 13 Exhibit 401 "TOPS-20 DECnet-20 Programmers 22	10	GREG SATZ,
12	Guide and Operations Manual"	11	produced as a witness at the instance of the
13	•		-
14	Exhibit 402 One-page Document with 36	12	Defendant, having been first duly sworn, was
14	Bates No. KL-883 Exhibit 403 Document Beginning Bates No. 69	13	examined and testified as follows:
	ARISTANDCA00022465	14	
16	Fullitie 404 Demonstra 1 1 D 1 2	15	EXAMINATION
17	Exhibit 404 Document Beginning Bates No. 84 CSI-CLI-00359132	16	BY MR. FERRALL:
	Exhibit 405 One-page Document Bates No. 106	17	Q. Good morning, Mr. Satz. Can you please
	CSI-CLI-00746924	18	state your full name.
19	Exhibit 406 Document Rates No. CSI CLI 01929722 112	19	A. Greg Leonard Satz.
20	Exhibit 406 Document Bates No. CSI-CLI-01828732 112 Through Bates No. CSI-CLI-01828783	20	Q. Mr. Satz, you are not represented by
1	Exhibit 407 Document Beginning Bates No. 141	21	counsel today; is that right?
22	CSI-CLI-01295215	22	A. Correct.
22 23	Exhibit 408 Document Beginning Bates No. 143	23	
23	CSI-CLI-01295181		Q. Have you ever been deposed before?
24		24	A. I have.
25	***** Dogs 2	25	Q. All right. So you know the basic
	Page 3		Page 5

1	autoritoria est foruscontato. Estabalista dels les forusations, si meter asturen en existencia.		
1	There was a proper format and an improper format	1	such a generic function.
2	based on the syntax.	2	Q. Um-hum.
3	But it's we're really in the weeds	3	A. But I don't have a clear, I'm typing at
4	now.	4	a screen at a prompt and these are coming out.
5	Q. BY MR, Ferrall: Well, are you familiar	5	Q. Okay. And do you understand, under
6	with we talked about show commands, right?	6	show status, if you go one column over
7	A. Um-hum,	7	A. Um-hum.
8	Q. Are you familiar with either TOPS-20 or	8	Q there are some other words there,
9	other operating systems having show commands with	9	NCP request, known, line, local?
10	different level multiple levels of hierarchy to	10	A. Um-hum.
11	them? A. Sure.	11	<ul><li>Q. Do you understand how those work?</li><li>A. Sure.</li></ul>
12	MR. NEUKOM: Objection; compound.	13	Q. How would those work with a show status
13 14	Q. BY MR. FERRALL: Can you give me any	14	command, for example?
15	examples of	15	A. You mean from a parsing point of view
16	A. No.	16	or from how what they actually do inside the
17	Q. Okay. Well, let me ask you to look	17	code as a function? Because, again, it is those
18	at	18	levels.
19	A. I think the you can actually	19	Q. Yeah. I mean as in terms of
20	download a version of TOPS-20 and run it on your	20	A. You know, what NCP request actually
21	phone.	21	does in the code as a function and the information
22	Q. On my phone? Wow. Probably	22	it returns is different than the detail of
23	A. Which I would encourage you to do.	23	actually grabbing the keyword NCP request.
24	Q. Were you familiar with something called	24	Q. Okay. I guess my first question, then,
25	the "NCP" or	25	about this is how how would the parser handle
1 10011	Page 42		Page 44
1	A. Oh, the DECnet configuration?	1	these different keywords following show status?
2	Q the Network Control Program?	2	MR. NEUKOM: Objection; foundation, phrased
3		122	
100	A. Vaguely. I mean, I at one point, I	3	in a hypothetical, and calls for opinion
4	A. Vaguely. I mean, I at one point, I used it. I don't remember it.	3	in a hypothetical, and calls for opinion testimony.
5	used it. I don't remember it. Q. Okay. All right.		
5	used it. I don't remember it. Q. Okay. All right. A. We could look in the manual if you want	4	testimony.  THE WITNESS: No different than if it parsed A, B or C in an order. It is just a token.
4 5 6 7	used it. I don't remember it. Q. Okay. All right. A. We could look in the manual if you want to talk about it.	4 5 6 7	testimony.  THE WITNESS: No different than if it parsed A, B or C in an order. It is just a token.  Just a series of descriptions that permit what is
4 5 6 7 8	used it. I don't remember it. Q. Okay. All right. A. We could look in the manual if you want to talk about it. Q. Well, if you could look at Exhibit 401.	4 5 6 7 8	testimony.  THE WITNESS: No different than if it parsed A, B or C in an order. It is just a token.  Just a series of descriptions that permit what is acceptable in a particular field.
4 5 6 7 8 9	used it. I don't remember it.  Q. Okay. All right.  A. We could look in the manual if you want to talk about it.  Q. Well, if you could look at Exhibit 401.  A. I mean, it's this is some old stuff.	4 5 6 7 8 9	testimony.  THE WITNESS: No different than if it parsed A, B or C in an order. It is just a token.  Just a series of descriptions that permit what is acceptable in a particular field.  So in this particular case, it is
4 5 6 7 8 9	used it. I don't remember it.  Q. Okay. All right.  A. We could look in the manual if you want to talk about it.  Q. Well, if you could look at Exhibit 401.  A. I mean, it's this is some old stuff.  Q. On the section on NCP begins	4 5 6 7 8 9	testimony.  THE WITNESS: No different than if it parsed A, B or C in an order. It is just a token.  Just a series of descriptions that permit what is acceptable in a particular field.  So in this particular case, it is looking for the letters S-H-O-W, followed by some
4 5 6 7 8 9 10 11	used it. I don't remember it.  Q. Okay. All right. A. We could look in the manual if you want to talk about it.  Q. Well, if you could look at Exhibit 401. A. I mean, it's this is some old stuff. Q. On the section on NCP begins around I guess it's Chapter 6.	4 5 6 7 8 9 10 11	testimony.  THE WITNESS: No different than if it parsed A, B or C in an order. It is just a token.  Just a series of descriptions that permit what is acceptable in a particular field.  So in this particular case, it is looking for the letters S-H-O-W, followed by some sort of space or command termination or break,
4 5 6 7 8 9 10 11 12	used it. I don't remember it. Q. Okay. All right. A. We could look in the manual if you want to talk about it. Q. Well, if you could look at Exhibit 401. A. I mean, it's this is some old stuff. Q. On the section on NCP begins around I guess it's Chapter 6. A. Okay.	4 5 6 7 8 9 10 11 12	testimony.  THE WITNESS: No different than if it parsed A, B or C in an order. It is just a token.  Just a series of descriptions that permit what is acceptable in a particular field.  So in this particular case, it is looking for the letters S-H-O-W, followed by some sort of space or command termination or break, looking for another keyword the same way. Looking
4 5 6 7 8 9 10 11 12 13	used it. I don't remember it. Q. Okay. All right. A. We could look in the manual if you want to talk about it. Q. Well, if you could look at Exhibit 401. A. I mean, it's this is some old stuff. Q. On the section on NCP begins around I guess it's Chapter 6. A. Okay. Q. 6-2. But my question will go to	4 5 6 7 8 9 10 11 12 13	testimony.  THE WITNESS: No different than if it parsed A, B or C in an order. It is just a token.  Just a series of descriptions that permit what is acceptable in a particular field.  So in this particular case, it is looking for the letters S-H-O-W, followed by some sort of space or command termination or break, looking for another keyword the same way. Looking for a third keyword. When it completes, it gets
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	used it. I don't remember it.  Q. Okay. All right. A. We could look in the manual if you want to talk about it.  Q. Well, if you could look at Exhibit 401. A. I mean, it's this is some old stuff. Q. On the section on NCP begins around I guess it's Chapter 6. A. Okay. Q. 6-2. But my question will go to Table 6-1, which is on Page 6-12. A. Um-hum. Q. So let me just ask you if you are you looking at that table on 6-12? A. I am. Q. Okay. And if we just focus on the show commands there, do you see those? A. I do.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	testimony.  THE WITNESS: No different than if it parsed A, B or C in an order. It is just a token.  Just a series of descriptions that permit what is acceptable in a particular field.  So in this particular case, it is looking for the letters S-H-O-W, followed by some sort of space or command termination or break, looking for another keyword the same way. Looking for a third keyword. When it completes, it gets down to what might be called a terminal condition because it says, okay, I've completed this parse, the parse is successful, now go perform something, which would the interesting part, which is pull out the NCP request data from the operating system or networking kernel and then display it somehow.  Q. BY MR. Ferrall: And were you ever aware of operating systems growing their command
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1	MR. NEUKOM: Objection; vague and compound.	1	A. Um-hum.
2	THE WITNESS: They would augment the command	2	Q. And a normal mode, I think. What were
3	set, the features, and there was, typically, a	3	the other modes of TOPS-20 that you could recall?
4	user interface component to it, like modifying the	4	A. They weren't necessarily modes, as
5	menu commands on your laptops today.	5	you might think of them as different parse trees,
6	Q. BY MR. FERRALL: And was there would	6	to use your tree analogy. They were command sets
7	they, typically, build upon existing keywords?	7	that would be made available or not available
8	MR. NEUKOM: Same objections, and calls for	8	depending on, in the case of privilege mode,
9	speculation.	9	having a password. So you had to know the secret
10	THE WITNESS: Depending on the feature set.	10	code to then enable the parse tree that was called
11	If it was an extension of an existing feature set	11	privilege mode.
12	or if it was brand new. I mean, as you described	12	Q. Was there a different prompt
13	a tree, those trees can be rearranged and	13	indicator
14	augmented or removed.	14	A. There is.
15	MR. FERRALL: Okay. Why don't we take our	15	Q for the different command sets that
16	first break. We've been going for about an hour.	16	were available, if you will?
17	THE WITNESS: Okay.	17	A. Yes. And TOPS-20 and I think VMS
18	THE VIDEOGRAPHER: The time is 11:12 a.m.	18	used the same mode had a subcommand mode. So
19	Off the record.	19	you could I don't know if you would put a comma
20	(Recess taken.)	20	at the end of the line or if it was just a it
21	THE VIDEOGRAPHER: The time is 11:23 a.m.	21	knew you were going into the mode. I can't I
22	On the record.	22	don't remember anymore. But it would then
23	Q. BY MR. FERRALL: Mr. Satz, are you	23	double-prompt you. So if your prompt was, like, a
24	familiar with any use of a "clear" command from	24	dollar sign, it would give you two dollar signs to
25	either TOPS-20 or early operating systems?	25	know you were in the subcommand mode. Or in the
20	Page 46	20	Page 48
	5073.300	-	CONSTANT AND
320			
1	A. I can't say I recall that.	1	privilege mode it would change the prompt from a
2	Q. Okay.	2	single dollar sign to, like, an "at" sign or a
2	<ul><li>Q. Okay.</li><li>A. There could have been, but there's a</li></ul>	2 3	single dollar sign to, like, an "at" sign or a "pound" sign. It would give you indication. And
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 166 17 18 19 20 21 22 23 24 25	marked CSI-CLI-00746924.  Exhibit 406 begins CSI-CLI-01828732, and for this document I'll read the last number because I think we're all unclear whether it is one versus multiple documents. This ends with Bates stamp CSI-CLI-01828783.  Exhibit 407 begins Bates stamp CSI-CLI-01295215.  And Exhibit 408 begins CSI-CLI-01295181.  MR. NEUKOM: Thanks all.  MR. FERRALL: Agreed. Thank you.	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	I, BROOKE R. BOHR, a Notary Public in and for the State of Idaho, do hereby certify:  That prior to being examined, the witness named in the foregoing deposition was by me duly sworn to testify the truth, the whole truth, and nothing but the truth;  That said deposition was taken down by me in shorthand at the time and place therein named and thereafter reduced into typewriting under my direction, and that the foregoing transcript contains a full, true, and verbatim record of the said deposition.  I further certify that I have no interest in the event of the action.  WITNESS my hand and seal March 30, 2016  %signature%> Brooke R. Bohr CSB No. 752
25	Page 166	25	CSR No. 753 Page 168
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	VERIFICATION I declare under penalty of perjury under the laws that the foregoing is true and correct.  Executed on		
24 25	Page 167		
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